

1. US-09-925-179-9 (1-218)
US-08-466-163B-9 Sequence 9, Application US/08466163B
Sequence 9, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2G1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 9
LENGTH: 218
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: humanized maeII, version 1, light

```
Initial Score      = 218    Optimized Score = 218    Significance = 6.86
Residue Identity = 100%    Matches      = 218    Mismatches  = 0
Gaps              = 0      Conservative Substitutions = 0
```

X 10 20 30 40 50 60 70
DIQLTQSPSSLSASVGDRTVITCRASQVDVGDGSYNNWQQKPGKAPKLLIYAAS^YILBSGVPSPRPSGGSG
DIQLTQSPSSLSASVGDRTVITCRASQVDVGDGSYNNWQQKPGKAPKLLIYAAS^YILBSGVPSPRPSGGSG
DIQLTQSPSSLSASVGDRTVITCRASQVDVGDGSYNNWQQKPGKAPKLLIYAAS^YILBSGVPSPRPSGGSG
X 10 20 30 40 50 60 70

80 90 100 110 120 130 140
TDTFTLTISLOPEDPATYCCQSHEDPYTCQGTKVIRKTVAAPSVFIPTPDEOLKGTASVCLLNFF
TDTFTLTISLOPEDPATYCCQSHEDPYTCQGTKVIRKTVAAPSVFIPTPDEOLKGTASVCLLNFF
TDTFTLTISLOPEDPATYCCQSHEDPYTCQGTKVIRKTVAAPSVFIPTPDEOLKGTASVCLLNFF
TDTFTLTISLOPEDPATYCCQSHEDPYTCQGTKVIRKTVAAPSVFIPTPDEOLKGTASVCLLNFF

150 160 170 180 190 200 210
PPEAKVQKVDNALGSGNSQSVTEQDSKSTYLSLSTLTKADYEKKHYKVCETHOGLSPVTKSFNRG
PPEAKVQKVDNALGSGNSQSVTEQDSKSTYLSLSTLTKADYEKKHYKVCETHOGLSPVTKSFNRG
PPEAKVQKVDNALGSGNSQSVTEQDSKSTYLSLSTLTKADYEKKHYKVCETHOGLSPVTKSFNRG

$$\begin{array}{c} \times \cup - \cup \times \\ \{x\} \quad \{y\} \end{array}$$

2. US-09-925-179-9 (1-218)
US-08-466-163B-2 Sequence 2, Application US/08466163B

Sequence 2, Application US/08466163B
 Patent No. 6329509
 GENERAL INFORMATION:
 APPLICANT: Jardieu, Paula M.
 APPLICANT: Presta, Leonard G.
 TITLE OF INVENTION: Immunoglobulin Variants
 FILE REFERENCE: P0718P2C1D1
 CURRENT APPLICATION NUMBER: US/08/466,163B
 CURRENT FILING DATE: 1995-08-06
 PRIOR APPLICATION NUMBER: US 08/405,617
 PRIOR FILING DATE: 1995-03-15
 PRIOR APPLICATION NUMBER: US 08/185,899
 PRIOR FILING DATE: 1994-01-26

Tue

PREAKVQ
4. US-09-925-4
US-08-466-10

Sequence 4, App
Patent No. 63295
GENERAL INFORMATION
APPLICANT: Jardi
TITLE OF INVENTION
FILE REFERENCE
CURREN

PRIOR APPLICATION NUMBER: US 07/879,495
 PRIOR FILING DATE: 1992-03-07
 PRIOR APPLICATION NUMBER: US 07/744,768
 PRIOR FILING DATE: 1991-08-14
 NUMBER OF SEQ ID NOS: 64
 SEQ ID NO 2
 LENGTH: 111
 TYPE: PR1
 ORGANISM: Mus musculus

```
Initial Score      = 85 Optimized Score = 85 Significant
Residue Identity = 76% Matches      = 85 Mismatches
Gaps              = 0 Conservative Substitutions
```

X 10 20 30 40 50 60
 DIQLTQPSLSUSVGDRTVITCRASQSDYDGDSTYMWYQQKPGKAPKLLIYAASYLES
 DVLVTQSPASLAVSLGQRATISCKASQSDYDGDSTYMWYQQKPGQPILLIYAASYLGS
 X 10 20 30 40 50 60

80 90 100 110 120 130

TDFTLTILSSLOPEDPATYTCQOSHEDYTFGGQTKVEIKRTVAAPSVFIFFPSDEQLKSC

TDFTLTINHPVEEDAATFYCQOSHEDYTFGGAGTKLEIK

150 160
PREAKVQWKVDNALQSG

3. US-09-925-179-9 (1-218)
US-08-466-163B-6 Sequence 6, Application US/08466163B

Sequence 6, Application US/08466163B

Patent No. 6329509
GENERAL INFORMATION:

APPLICANT: Jardiou, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466.163B

CURRENT FILING DATE: 1995-06-06
 PRIOR APPLICATION NUMBER: US 08/405 617

PRIOR APPLICATION NUMBER: US 08/403,617
 PRIOR FILING DATE: 1995-03-15
 PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR APPLICATION NUMBER: US 08/185,899
 PRIOR FILING DATE: 1994-01-26
 PRIOR APPLICATION NUMBER: US 07/970,495

PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64
SEQ ID NO 6

LENGTH: 106

TYPE: PRT

ORGANISM: Mus musculus

```
Initial Score      = 83 Optimized Score = 83 Significant
Residue Identity = 78% Matches      = 83 Mismatches
Gaps              = 0 Conservative Substitutions
```

K 10 20 30 40 50 60
 DIQLTQSPSSLSASVGRVTITCRASQSYVDGDSYMNWYQKPGKAPKLLIYAASYLE
 DIQLTQSPSSLSASVGRVTITCRASQSYVDGDSYMNWYQKPGKAPKLLIYAASYLE
 DIQLTQSPSSLSASVGRVTITCRASQSYVDGDSYMNWYQKPGKAPKLLIYAASYLE
 DIQLTQSPSSLSASVGRVTITCRASQSYVDGDSYMNWYQKPGKAPKLLIYAASYLE
 K 10 20 30 40 50 60

80 90 100 110 120 130
 TDTFTLTISLQPEDFATYCCQSHEDPYTFCQGTKEIKRTVAAPSVFIFPDSDEQLKSC
 TDTFTLTINPVVEEDAAITYCCQSNEDPFTFCAGT

051

Tue May 25 14:11:23 2004

us-09-925-179-8.1es

US-08-466-163B-8 Sequence 8, Application US/08466163B

Sequence 8, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jarden, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT FILING DATE: US/08/466,163B
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 8
LENGTH: 453
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: humanized mab1, version 1 heavy chain

Initial Score = 453
Optimized Score = 453
Matches = 100%
Mismatched = 0
Conservative Substitutions = 0
Gaps = 0

EVQLVESGGGLVQPGGSLRLSCAASGYSITSGYSWMNIRQAPGKGLRWVASITTDGSTNVAADSVKGRFTISR
EVQLVESGGGLVQPGGSLRLSCAASGYSITSGYSWMNIRQAPGKGLRWVASITTDGSTNVAADSVKGRFTISR
X 10 20 30 40 50 60 70
DSSKNTFFYYQMNSLRADTAIVYYCARGGSHYFPGHMFVWVGQGLTVTVSSASSTKGGKGSVPFLAPSSKSTSGG
DSSKNTFFYYQMNSLRADTAIVYYCARGGSHYFPGHMFVWVGQGLTVTVSSASSTKGGKGSVPFLAPSSKSTSGG
X 80 90 100 110 120 130 140
TAALGCLVDYFPFPPVTVSWNSGALTSSGVHTFPFPAVLQSSGLYSLSVTVTPSSSLGTQTYICNVNHHKPSNTK
TAALGCLVDYFPFPPVTVSWNSGALTSSGVHTFPFPAVLQSSGLYSLSVTVTPSSSLGTQTYICNVNHHKPSNTK
X 150 160 170 180 190 200 210
VKKKVEPKSCDTHHCPFPAPAEELTGGPSVFLFPPKPKDITLMISRTPEVTCVVVDVSHEDPEPKFWMYVDGV
VKKKVEPKSCDTHHCPFPAPAEELTGGPSVFLFPPKPKDITLMISRTPEVTCVVVDVSHEDPEPKFWMYVDGV
X 220 230 240 250 260 270 280
EYHNAKTKTKRERQYNSITRYAVSVLTVLHODWLNKGKCKVSNKALPAPBKTIISKAKGQPRRPQVYITLPPS
EYHNAKTKTKRERQYNSITRYAVSVLTVLHODWLNKGKCKVSNKALPAPBKTIISKAKGQPRRPQVYITLPPS
X 290 300 310 320 330 340 350 360
REEMTKNQVSLTCLVKGYFSPSDIAVEWESNGQPENNNKKTTPPVLDSDGSFFLYSKLTLDKSRMQQGNVFSCS
REEMTKNQVSLTCLVKGYFSPSDIAVEWESNGQPENNNKKTTPPVLDSDGSFFLYSKLTLDKSRMQQGNVFSCS
X 370 380 390 400 410 420 430
VMEHNLHNNHYTQKSLSLSPGK
VMEHNLHNNHYTQKSLSLSPGK
X 440 450

Sequence 3, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jarden, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT FILING DATE: US/08/466,163B
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 3
LENGTH: 134
TYPE: PRT
ORGANISM: Mus musculus

Initial Score = 87
Optimized Score = 87
Matches = 99%
Mismatched = 2
Conservative Substitutions = 0
Gaps = 0

DSSKNTFFYYQMNSLRADTAIVYYCARGGSHYFPGHMFVWVGQGLTVTVSSASSTKGGKGSVPFLAPSSKSTSGG
DSSKNTFFYYQMNSLRADTAIVYYCARGGSHYFPGHMFVWVGQGLTVTVSSASSTKGGKGSVPFLAPSSKSTSGG
X 80 90 100 110 120 130 140
TAALGCLVDYFPFPPVTVSWNSGALTSSGVHTFPFPAVLQSSGLYSLSVTVTPSSSLGTQTYICNVNHHKPSNTK
TAALGCLVDYFPFPPVTVSWNSGALTSSGVHTFPFPAVLQSSGLYSLSVTVTPSSSLGTQTYICNVNHHKPSNTK
X 150 160 170 180 190 200 210
VKKKVEPKSCDTHHCPFPAPAEELTGGPSVFLFPPKPKDITLMISRTPEVTCVVVDVSHEDPEPKFWMYVDGV
VKKKVEPKSCDTHHCPFPAPAEELTGGPSVFLFPPKPKDITLMISRTPEVTCVVVDVSHEDPEPKFWMYVDGV
X 220 230 240 250 260 270 280
EYHNAKTKTKRERQYNSITRYAVSVLTVLHODWLNKGKCKVSNKALPAPBKTIISKAKGQPRRPQVYITLPPS
EYHNAKTKTKRERQYNSITRYAVSVLTVLHODWLNKGKCKVSNKALPAPBKTIISKAKGQPRRPQVYITLPPS
X 290 300 310 320 330 340 350 360
REEMTKNQVSLTCLVKGYFSPSDIAVEWESNGQPENNNKKTTPPVLDSDGSFFLYSKLTLDKSRMQQGNVFSCS
REEMTKNQVSLTCLVKGYFSPSDIAVEWESNGQPENNNKKTTPPVLDSDGSFFLYSKLTLDKSRMQQGNVFSCS
X 370 380 390 400 410 420 430
VMEHNLHNNHYTQKSLSLSPGK
VMEHNLHNNHYTQKSLSLSPGK
X 440 450

Sequence 7, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jarden, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT FILING DATE: US/08/466,163B
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 7
LENGTH: 137
TYPE: PRT
ORGANISM: Mus musculus

IntelliGenetics

FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file us-09-925-179-8.res made by bshears on Tue 25 May 104 14:09:51-PDT.

Query sequence being compared: US-09-925-179-8 (1-453)
 Number of sequences searched: 64
 Number of scores above cutoff: 62

Results of the initial comparison of US-09-925-179-8 (1-453) with:
File : /home/bshears/6329*

[illegible]

PARAMETERS	
Similarity matrix	Unitary
Mismatch penalty	K-tuple
Gap penalty	Joining penalty
Gap size penalty	1.00
Gap size penalty	0.05
Cutoff score	0
Randomization group	0

SEARCH STATISTICS

Scores:	Mean	Median	Standard Deviation
	13	3	57.58
Times:	CPU	Total Elapsed	
	00:00:00.00	00:00:00.00	

Number of residues:	1879
Number of sequences searched:	64
Number of scores above cutoff:	62

The scores below are sorted by initial score. Significance is calculated based on initial score.

A 100% identical sequence to the query sequence was found:

Sequence Name	Description	Init. Opt.	Length	Score	Sig.	Frame
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Sequence Name	Description	Length	Score	Score	Init. Opt.
			above mean	from mean	
1. US-08-466-163B-8	Sequence 8, Application U	453	453	87	93
2. US-08-466-163B-3	Sequence 3, Application U	134	87	***	93
3. US-08-466-163B-7	Sequence 7, Application U	137	61	***	74
4. US-08-466-163B-5	Sequence 5, Application U	130	57	***	74
5. US-08-466-163B-9	Sequence 9, Application U	218	11	***	62
6. US-08-466-163B-3	Sequence 3, Application U	111	10	***	10
7. US-08-466-163B-2	Sequence 2, Application U	9	9	***	9
8. US-08-466-163B-1	Sequence 1, Application U	9	9	***	9
9. US-08-466-163B-4	Sequence 4, Application U	10	9	***	9
10. US-08-466-163B-1	Sequence 1, Application U	10	9	***	9
11. US-08-466-163B-5	Sequence 5, Application U	9	8	***	8
12. US-08-466-163B-1	Sequence 1, Application U	11	8	***	8
13. US-08-466-163B-4	Sequence 4, Application U	124	8	***	19
14. US-08-466-163B-6	Sequence 6, Application U	106	7	***	22
15. US-08-466-163B-1	Sequence 1, Application U	109	7	***	24
16. US-08-466-163B-6	Sequence 6, Application U	5	5	***	5
17. US-08-466-163B-3	Sequence 3, Application U	6	5	***	5
18. US-08-466-163B-3	Sequence 3, Application U	6	5	***	5
19. US-08-466-163B-2	Sequence 2, Application U	6	5	***	5
20. US-08-466-163B-1	Sequence 1, Application U	6	5	***	5
21. US-08-466-163B-2	Sequence 2, Application U	111	5	***	24
22. US-08-466-163B-6	Sequence 6, Application U	4	4	***	4
23. US-08-466-163B-5	Sequence 5, Application U	4	4	***	4
24. US-08-466-163B-1	Sequence 1, Application U	4	4	***	4
25. US-08-466-163B-1	Sequence 1, Application U	4	4	***	4
26. US-08-466-163B-1	Sequence 1, Application U	6	4	***	4
27. US-08-466-163B-5	Sequence 5, Application U	6	4	***	4
28. US-08-466-163B-2	Sequence 2, Application U	4	3	***	3
29. US-08-466-163B-5	Sequence 5, Application U	5	3	***	3
30. US-08-466-163B-2	Sequence 2, Application U	5	3	***	3
31. US-08-466-163B-3	Sequence 3, Application U	11	3	***	3
32. US-08-466-163B-1	Sequence 1, Application U	11	3	***	3
33. US-08-466-163B-5	Sequence 5, Application U	4	2	***	2
34. US-08-466-163B-5	Sequence 5, Application U	4	2	***	2
35. US-08-466-163B-4	Sequence 4, Application U	4	2	***	2
36. US-08-466-163B-3	Sequence 3, Application U	4	2	***	2
37. US-08-466-163B-2	Sequence 2, Application U	4	2	***	2
38. US-08-466-163B-1	Sequence 1, Application U	4	2	***	2
39. US-08-466-163B-6	Sequence 6, Application U	5	2	***	2
40. US-08-466-163B-6	Sequence 6, Application U	5	2	***	2
41. US-08-466-163B-5	Sequence 5, Application U	5	2	***	2
42. US-08-466-163B-2	Sequence 2, Application U	6	2	***	2
43. US-08-466-163B-6	Sequence 6, Application U	6	2	***	2
44. US-08-466-163B-4	Sequence 4, Application U	6	2	***	2
45. US-08-466-163B-4	Sequence 4, Application U	6	2	***	2
46. US-08-466-163B-4	Sequence 4, Application U	6	2	***	2
47. US-08-466-163B-4	Sequence 4, Application U	6	2	***	2
48. US-08-466-163B-3	Sequence 3, Application U	6	2	***	2
49. US-08-466-163B-3	Sequence 3, Application U	6	2	***	2
50. US-08-466-163B-3	Sequence 3, Application U	6	2	***	2
51. US-08-466-163B-3	Sequence 3, Application U	6	2	***	2
52. US-08-466-163B-3	Sequence 3, Application U	6	2	***	2
53. US-08-466-163B-3	Sequence 3, Application U	6	2	***	2
54. US-08-466-163B-5	Sequence 5, Application U	8	2	***	2
55. US-08-466-163B-5	Sequence 5, Application U	8	2	***	2
56. US-08-466-163B-2	Sequence 2, Application U	8	2	***	2
57. US-08-466-163B-2	Sequence 2, Application U	8	2	***	2
58. US-08-466-163B-2	Sequence 2, Application U	8	2	***	2
59. US-08-466-163B-1	Sequence 1, Application U	9	2	***	2
60. US-08-466-163B-4	Sequence 4, Application U	10	2	***	2
61. US-08-466-163B-4	Sequence 4, Application U	10	2	***	2
62. US-08-466-163B-1	Sequence 1, Application U	10	2	***	2</

1. US-09-925-179-8 (1-453)

US-08-466-163B-8 Sequence 8, Application US/08466163B

Sequence 8, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

CURRENT APPLICATION NUMBER: US/08/466,163B

FILE REFERENCE: P0718P2C1D1

PRIOR FILING DATE: 1995-06-06

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 8

LENGTH: 453

TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: humanized mael, version 1 heavy chain

Initial Score = 453 Optimized Score = 453 Significance = 7.64

Residue Identity = 100% Matches = 453 Mismatches = 0

Gaps = 0 Conservative Substitutions = 0

X 10 20 30 40 50 60 70

EVQLVESGGGLVQPGGSLRLSCAVSYSTISGYSWNIROAPGKGLWVASTYDGSINADSVKGRFTISR

EVQLVESGGGLVQPGGSLRLSCAVSYSTISGYSWNIROAPGKGLWVASTYDGSINADSVKGRFTISR

X 10 20 30 40 50 60 70

DDSKNTFYQMSLRADTAVYVYCARSGHYFGHWFHFAVWGQGLTVTVSSASTKGKPSVFLPLAPSKSTSGG

DDSKNTFYQMSLRADTAVYVYCARSGHYFGHWFHFAVWGQGLTVTVSSASTKGKPSVFLPLAPSKSTSGG

X 10 20 30 40 50 60 70

TAALGCLVKDYFPEPTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPRSSSLGTQYICNVNHPKSTNTK

TAALGCLVKDYFPEPTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPRSSSLGTQYICNVNHPKSTNTK

X 10 20 30 40 50 60 70

VDKKVPKSCDTHCTCPAPPELLGSPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKENWYDGV

VDKKVPKSCDTHCTCPAPPELLGSPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKENWYDGV

X 10 20 30 40 50 60 70

EVHNAKTPREQYNSTYRVSVLTVLHODWLNKGEYKCKVSNKALPAPIETISKAKQPREPOVYTLPPS

EVHNAKTPREQYNSTYRVSVLTVLHODWLNKGEYKCKVSNKALPAPIETISKAKQPREPOVYTLPPS

X 10 20 30 40 50 60 70

REMTKQVSLTCLVKGFPSPDIADWEWNGQPPENNYKTPPVLDSDGFFLYSKLTVDKSRWQGNVFSQS

REMTKQVSLTCLVKGFPSPDIADWEWNGQPPENNYKTPPVLDSDGFFLYSKLTVDKSRWQGNVFSQS

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

US-09-925-179-8 (1-453)

Sequence 3, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

CURRENT APPLICATION NUMBER: US/08/466,163B

FILE REFERENCE: P0718P2C1D1

PRIOR FILING DATE: 1995-06-06

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 3

LENGTH: 134

TYPE: PRT

ORGANISM: Mus musculus

FEATURE:

OTHER INFORMATION: humanized mael, version 1 heavy chain

Initial Score = 87 Optimized Score = 93 Significance = 1.29

Residue Identity = 69% Matches = 94 Mismatches = 40

Gaps = 2 Conservative Substitutions = 0

X 10 20 30 40 50 60 70

EVQLVESGGGLVQPGGSLRLSCAVSYSTISGYSWNIROAPGKGLWVASTYDGSINADSVKGRFTISR

EVQLVESGGGLVQPGGSLRLSCAVSYSTISGYSWNIROAPGKGLWVASTYDGSINADSVKGRFTISR

X 10 20 30 40 50 60 70

DDSKNTFYQMSLRADTAVYVYCARSGHYFGHWFHFAVWGQGLTVTVSSASTKGKPSVFLPLAPSKSTSGG

DDSKNTFYQMSLRADTAVYVYCARSGHYFGHWFHFAVWGQGLTVTVSSASTKGKPSVFLPLAPSKSTSGG

X 10 20 30 40 50 60 70

TAALGCLVKDYFPEPTVSWNSGALTSGVHTFPAVLQSSGLY

TAALGCLVKDYFPEPTVSWNSGALTSGVHTFPAVLQSSGLY

X 10 20 30 40 50 60 70

VDKKVPKSCDTHCTCPAPPELLGSPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKENWYDGV

VDKKVPKSCDTHCTCPAPPELLGSPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKENWYDGV

X 10 20 30 40 50 60 70

EVHNAKTPREQYNSTYRVSVLTVLHODWLNKGEYKCKVSNKALPAPIETISKAKQPREPOVYTLPPS

EVHNAKTPREQYNSTYRVSVLTVLHODWLNKGEYKCKVSNKALPAPIETISKAKQPREPOVYTLPPS

X 10 20 30 40 50 60 70

REMTKQVSLTCLVKGFPSPDIADWEWNGQPPENNYKTPPVLDSDGFFLYSKLTVDKSRWQGNVFSQS

REMTKQVSLTCLVKGFPSPDIADWEWNGQPPENNYKTPPVLDSDGFFLYSKLTVDKSRWQGNVFSQS

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

X 10 20 30 40 50 60 70

VHMEALHNHYTQKSLSPGK

Initial Score = 61 Optimized Score = 74 Significance = 0.83
Residue Identity = 54% Matches = 75 Mismatches = 59
Gaps = 3 Conservative Substitutions = 0

X 10 20 30 40 50 60 70
EVQLVESGGGLVQPGGSLRLSCAIVGYSITSGYSNWIRQAPGKLEWVASITVDGNTNYADSVKGRFTISR
DIQIQESGPDVLPKPSQSLTCTVTGYSITSGYSNWIRQAPGKLEWVASITVDGNTNYADSVKGRFTISR
X 10 20 30 40 50 60 70
DDSKNTFYQWNSLRADTAIVYCARSHY---FGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST
DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG
X 80 90 100 110 120 130 140
SG3TAALGCLVKDYFPEPTVSWNSGALTSGVHTFPAVLQSSG

4. US-09-925-179-8 (1-453)
US-08-466-163B-5 Sequence 5, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION: Application US/08466163B

APPLICANT: Jardieu, Paula M.

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

PRIOR FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 5

LENGTH: 130

TYPE: PRT

ORGANISM: Mus musculus

Initial Score = 57 Optimized Score = 74 Significance = 0.76

Residue Identity = 55% Matches = 76 Mismatches = 54

Gaps = 6 Conservative Substitutions = 0

X 10 20 30 40 50 60 70

EVQLVESGGGLVQPGGSLRLSCAIVGYSITSGYSNWIRQAPGKLEWVASITVDGNTNYADSVKGRFTISR

DIQIQESGPDVLPKPSQSLTCTVTGYSITSGYSNWIRQAPGKLEWVASITVDGNTNYADSVKGRFTISR

X 10 20 30 40 50 60 70

DDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKSTSGG

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 80 90 100 110 120 130

TAALGCLVKDYFPEPTVSWNSGALTSGVHTFPAVLQSSGLY

US-09-925-179-8 (1-453)

US-08-466-163B-9 Sequence 9, Application US/08466163B

Sequence 9, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION: Application US/08466163B

APPLICANT: Jardieu, Paula M.

APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 9
LENGTH: 218

TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: humanized mael, version 1, light chain

Initial Score = 11 Optimized Score = 62 Significance = -0.03

Residue Identity = 32% Matches = 76 Mismatches = 131

Gaps = 30 Conservative Substitutions = 0

X 10 20 30 40 50 60

EVQLVESGGGLVQPGGSLRLSCAIVGYSITSGYSNWIRQAPGKLEWVASITVDGNTNYADSVKGRFT

DIQIQESGPDVLPKPSQSLTCTVTGYSITSGYSNWIRQAPGKLEWVASITVDGNTNYADSVKGRFT

X 10 20 30 40 50 60

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 70 80 90 100 110 120 130

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 130 140 150 160 170 180 190

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 210 220 230 240 250 260 270

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 280 290 300 310 320 330 340

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 360 370 380 390 400 410 420

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 440 450 460 470 480 490 500

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 520 530 540 550 560 570 580

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 600 610 620 630 640 650 660

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 680 690 700 710 720 730 740

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 760 770 780 790 800 810 820

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 840 850 860 870 880 890 900

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 920 930 940 950 960 970 980

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 1000 1010 1020 1030 1040 1050 1060

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 1080 1090 1100 1110 1120 1130 1140

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 1160 1170 1180 1190 1200 1210 1220

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 1240 1250 1260 1270 1280 1290 1300

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 1320 1330 1340 1350 1360 1370 1380

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 1400 1410 1420 1430 1440 1450 1460

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 1480 1490 1500 1510 1520 1530 1540

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

DTSKNQFQLNSVTETDATTYCARSHYIYGRYFDVWGAGTTTVSSAKRPHLSIHMPG

X 1560 1570 1580 1590 1600 1610 1620

ISDDSKNTFYQWNSLRADTAIVYCARSHYFGHWHPAVWGQITLVTVSSASTKGGPSVFLAPSSKST

TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 10 Optimized Score = 10 Significance = -0.05
Residue Identity = 90% Matches = 10 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0

240 250 260 270 280 X 290 X 300
PCPAPELLGGPSVFLPPKPKDTLMISRTPEVTCVVDVSHEDPSVKFNWYVDGVEVHNKTKPREQYNST
YVDGVQVHNK X
310 320 330 340
YRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIETISK

7. US-09-925-179-8 (1-453)
US-08-466-163B-2 Sequence 28, Application US/08466163B

Sequence 28, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
PRIOR FILING DATE: 1995-06-06
CURRENT FILING DATE: 1995-03-15
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 28
LENGTH: 9
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 9 Optimized Score = 9 Significance = -0.07
Residue Identity = 100% Matches = 9 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

210 220 230 240 250 X 260 X 270
YICNVNHPKSNTKVDKKVBPCKDTHTCPPCAPPELLGGPSVFLPPKPKDTLMISRTPEVTCVVDVSH
KDTLMISRT X
280 290 300 310
DPEVKFNWYVDGVEVHNKTKPREQYNSTYRVSVL

8. US-09-925-179-8 (1-453)
US-08-466-163B-1 Sequence 11, Application US/08466163B

Sequence 11, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
PRIOR FILING DATE: 1995-06-06
CURRENT FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 28
LENGTH: 9
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 9 Optimized Score = 9 Significance = -0.07
Residue Identity = 100% Matches = 9 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

210 220 230 240 250 X 260 X 270
YICNVNHPKSNTKVDKKVBPCKDTHTCPPCAPPELLGGPSVFLPPKPKDTLMISRTPEVTCVVDVSH
KDTLMISRT X
280 290 300 310
DPEVKFNWYVDGVEVHNKTKPREQYNSTYRVSVL

PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 11
LENGTH: 9
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 9 Optimized Score = 9 Significance = -0.07
Residue Identity = 100% Matches = 9 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

210 220 230 240 250 X 260 X 270
YICNVNHPKSNTKVDKKVBPCKDTHTCPPCAPPELLGGPSVFLPPKPKDTLMISRTPEVTCVVDVSH
KDTLMISRT X
280 290 300 310
DPEVKFNWYVDGVEVHNKTKPREQYNSTYRVSVL

9. US-09-925-179-8 (1-453)
US-08-466-163B-4 Sequence 46, Application US/08466163B

Sequence 46, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
PRIOR FILING DATE: 1995-06-06
CURRENT FILING DATE: 1995-03-15
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 46
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment

Initial Score = 9 Optimized Score = 9 Significance = -0.07
Residue Identity = 90% Matches = 9 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0

270 280 290 300 310 X 320 X 330
VTCVVDVSHEDPEVKFNWYVDGVEVHNKTKPREQYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPA
LHQDWLDGKE X
340 350 360 370
PIETISKAKGQPREPQVYTLPPSREEMTKNQVSLTCL

10. US-09-925-179-8 (1-453)
US-08-466-163B-1 Sequence 17, Application US/08466163B

Sequence 17, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.

Initial Score = 9 Optimized Score = 9 Significance = -0.07
Residue Identity = 90% Matches = 9 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0

270 280 290 300 310 X 320 X 330
VTCVVDVSHEDPEVKFNWYVDGVEVHNKTKPREQYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPA
LHQDWLDGKE X
340 350 360 370
PIETISKAKGQPREPQVYTLPPSREEMTKNQVSLTCL

APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 17
LENGTH: 10
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 9 Optimized Score = 9 Significance = -0.07
Residue Identity = 90% Matches = 9 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0
270 280 290 300 310 320 X 330
VTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAP
|||||
LHQDWLNGKEY
X
10

340 350 360 370
PIETISKAKGPPEPQVYTLPPSREEMTKNQVSLTCL

11. US-09-925-179-8 (1-453)
US-08-466-163B-5 Sequence 50, Application US/08466163B

Sequence 50, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 50

LENGTH: 9

TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: Mutant sequence substituted in place of IGE Fc(epsilon)3 fragment

Initial Score = 8 Optimized Score = 8 Significance = -0.09
Residue Identity = 88% Matches = 8 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0

270 280 290 300 310 320 X 330
TCVVVDVSHEDPEVKFNWYVDGVEVHNAKTPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAP
|||||
HQDWLNGKEY
X
10

340 350 360 370
IEKTISKAKGPPEPQVYTLPPSREEMTKNQVSLTCL

12. US-09-925-179-8 (1-453)
US-08-466-163B-1 Sequence 15, Application US/08466163B

Sequence 15, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 15

LENGTH: 11

TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 8 Optimized Score = 9 Significance = -0.09
Residue Identity = 81% Matches = 9 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

240 250 260 270 280 X 290 X 300
PCPAPELLGGPSVFLPPLPKDKTLISRIPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNST
|||||
YVDGVDVHNAK
X
10

310 320 330 340
YRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISK

13. US-09-925-179-8 (1-453)
US-08-466-163B-4 Sequence 4, Application US/08466163B

Sequence 4, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 4

LENGTH: 124

TYPE: PRT

ORGANISM: Mus musculus

Initial Score = 8 Optimized Score = 19 Significance = -0.09
Residue Identity = 20% Matches = 26 Mismatches = 69
Gaps = 29 Conservative Substitutions = 0

290 300 310 320 330 340 350

GVEVHNKTPREQYNSTRVSVLTVLHQDLNKGCKVSNKALPAPIEKTISSKAKGQPEQVYTLTP
DIVWTQS-----QKFMSTSV
X 10
360 370 380 390 400 410 420
PSEEMTKNQVSLTCLVKGFYPSDIAVEESGQPENNYKTPPPVLDSDGSFPLYSKLTVDKSRWQQGNVF-
GDR-----VSVTCRASQNSVSNVAYQKPGQ-----SPKALIYSAS-YRYSGVPEDRFTGSGSGTDFT
20 30 40 50 60 70
430 440 450 X
--SCSYMHREAL-----HNHYTKSLSLSPGK
LTIISNQSDLAIFYCQVYVPLVYFGGTTKLEIKRADAAPTVSIFPPSTR
80 90 100 X 110 120

14. US-09-925-179-8 (1-453)
US-08-466-163B-6 Sequence 6, Application US/08466163B

Sequence 6, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466.163B
CURRENT FILING DATE: 1995-06-06
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 6
LENGTH: 106
TYPE: PRT
ORGANISM: Mus musculus
Initial Score = 7 Optimized Score = 22 Significance = -0.10
Residue Identity = 21% Matches = 26 Mismatches = 80
Gaps = 15 Conservative Substitutions = 0
ADSVKGRFTISRDDSKNTFYLQMNLSRAEDTAVYVCARGSHYFGHWFVAVMGQGLTVTVSSASTKGKPSVF
DIQLTQSPASLAVSLGQRATIS
X 10 20
140 150 160 170 180 190 200
PLAPSSKSTGGTAAAGCLVKDYFPEPTVSWNSGALTSGVHTFPAVLQSSGLYSLSVTVVPSLSLGTQTY
CKASQSVYDGDSDYMNWYQKPGOP-PKLLIYAASNLESG---IPARFSGSGSGTDFTLNHIFVEVEDAATY
30 40 50 60 70 80 90
210 220 230 240 250 260 270
ICNVNHPKSNKYDKKVEPKSCDKTHCTCPCPAPELLGGPSVFLPPPKDITLMISRTPEVTCTVVDVSHED
YC-----QQSN-----EDPPTFGAGT
100 X
280
PEVXF

15. US-09-925-179-8 (1-453)
US-08-466-163B-1 Sequence 1, Application US/08466163B

Sequence 1, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466.163B
CURRENT FILING DATE: 1995-06-06
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 1
LENGTH: 109
TYPE: PRT
ORGANISM: Homo sapiens
Initial Score = 7 Optimized Score = 24 Significance = -0.10
Residue Identity = 25% Matches = 35 Mismatches = 68
Gaps = 32 Conservative Substitutions = 0
GRFTISRDDSKNTFYLQMNLSRAEDTAVYVCARGSHYFGHWFVAVMGQGLTVTVSSASTKGKPSVFPPLAPS
DSNPRGVSAAYLSRPSFDL-FI
X 10 20
140 150 160 170 180 190 200
SKSTSGGTAAAGCLVKDYFPEPTV-SWNSGALTSGV-HTFPAVLQSSG-LYSL-SVTVVPSLSLGTQTY
RKS---PT---ITCLVVDLAPSKGTNLTWSRAGSKPVNHSRKEEKORNGTLTVTSTPLVGTDRWIEGETQ-
30 40 50 60 70 80
210 220 230 240 X 250 260 270
YICNVNHPKSNKYDKKVEPKSCDKTHCTCPAPELLGGPSVFLPPPKDITLMISRTPEVTCTVVDVSHSHE
--CRVTH-----PHLPALMESSTTKT-----SGP
90 100 X
280 290
DPEVKFNWYVDGVEVHNK

16. US-09-925-179-8 (1-453)
US-08-466-163B-6 Sequence 62, Application US/08466163B

Sequence 62, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466.163B
CURRENT FILING DATE: 1995-06-06
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 62
LENGTH: 5
TYPE: PRT

ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment

Initial Score = 5 Optimized Score = 5 Significance = -0.14
Residue Identity = 100% Matches = 5 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

390 400 410 420 430 440 X 450
ESNQPENNYKTPPVLDSDGSPFLYSLKLVDRWQGNVFCVNVHSEALHHYTKQSLSLSPGK
|||||
LHNHY
X X

17. US-09-925-179-8 (1-453)
US-08-466-163B-3 Sequence 38, Application US/08466163B

Sequence 38, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Presta, Leonard G.

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 38

LENGTH: 6

TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 5 Optimized Score = 5 Significance = -0.14
Residue Identity = 83% Matches = 5 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0

250 260 270 280 290 300 X 310
FLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVFNNAKTKPREEQYNSTYRVVSVLTVLHQD
|||||
PREQOY
X X

320 330 340 350
WLNQKEYCKVSNKALPAPIETISKAKGQPREP

18. US-09-925-179-8 (1-453)
US-08-466-163B-3 Sequence 32, Application US/08466163B

Sequence 32, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Presta, Leonard G.

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 32

LENGTH: 6

TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 5 Optimized Score = 5 Significance = -0.14
Residue Identity = 83% Matches = 5 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0

230 240 250 260 270 X 280 290
PKSCDKTHTCPPCPAPPELLGGPSVFLFPPKPKDITLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVFNNAK
|||||
SHEDPO
X X

300 310 320
TKPREQYNSTYRVVSVLTVLHQDWLNGKEYKCK

19. US-09-925-179-8 (1-453)
US-08-466-163B-2 Sequence 21, Application US/08466163B

Sequence 21, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Presta, Paula M.

APPLICANT: Presta, Paula M.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 21

LENGTH: 6

TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 5 Optimized Score = 5 Significance = -0.14
Residue Identity = 83% Matches = 5 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0

250 260 270 280 290 300 X 310
FLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVFNNAKTKPREEQYNSTYRVVSVLTVLHQD
|||||
PREQOY
X X

320 330 340 350
WLNQKEYCKVSNKALPAPIETISKAKGQPREP

20. US-09-925-179-8 (1-453)
US-08-466-163B-1 Sequence 13, Application US/08466163B

Sequence 13, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Presta, Paula M.

APPLICANT: Presta, Paula M.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 13
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 5 Optimized Score = -0.14
Residue Identity = 83% Matches = 5 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0

230 240 250 260 270 280 290
PKSCKTHCPCPAPPELLGGPSVFLFPKPKDILMISRTPEVTCVVDVSHEDPEVKFNWYDGVVHNK
|||||
SHEDPQ
X X
X

300 310 320
TKPREQYNSTYRVSVLTVLHQLDMLNGKEYCK

21. US-09-925-179-8 (1-453)
US-08-466-163B-2 Sequence 2, Application US/08466163B

Sequence 2, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 2
LENGTH: 111
TYPE: PRT
ORGANISM: Mus musculus

Initial Score = 5 Optimized Score = -0.14
Residue Identity = 25% Matches = 34 Mismatches = 65
Gaps = 37 Conservative Substitutions = 0

130 140 150 160 170 180 190
KGPSVFLAPSSKSGTAALGLVKDYFPEPTVMNSGALTSGVHTFPVAVLQSSGLYSLSVVTPSSS
|||
DIVLTQS-PASL-----AVS
X 10

200 210 220 230 240 250 260
LGPQTYCNVNHKPSKVKYKVERKSCDKTHCPCPAPELIGGSVFLFPKP-----KDTILMIS
|||
LGRATYI---SKRAS-QSVD--YDGSYMNWYQKQKQPPIILIIYAASVILGSEIPARFSGSGGTDFTLINIH
20 30 40 50 60 70 80
270 280 290 300 310 320 330
RTPE--VTCVVVDVSHEDPEVKFNWYDGVVHNKTKPREQYNSTYRVSVLTVLHQLDMLNGKEYCKVK

PVEEDAATFYCQSHEDP-----YTFG-----AGTKLEIK
90 100 110
340 350
NKALPAPIEKTISKAKGQPR

22. US-09-925-179-8 (1-453)
US-08-466-163B-6 Sequence 60, Application US/08466163B

Sequence 60, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 60
LENGTH: 4
TYPE: PRT
ORGANISM: Artificial sequence

OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment

Initial Score = 4 Optimized Score = -0.16
Residue Identity = 100% Matches = 4 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

300 310 320 330 340 350 360
REEQYNSTYRVSVLTVLHQLDMLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRREEMTKNQV
|||||
QPRE
X X

370 380 390 400
SLTCLVKGFYPSDIAVWESNGQPENNYKTP

23. US-09-925-179-8 (1-453)
US-08-466-163B-5 Sequence 56, Application US/08466163B

Sequence 56, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 56
LENGTH: 4

TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment

Initial Score = 4 Optimized Score = 4 Significance = -0.16
Residue Identity = 100% Matches = 4 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

290 300 310 320 330 340 350
DGEVHNKAKPREEQNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYVTL

||||
APIE
X X

360 370 380
PPSREEMTKNQVSLTCLVKGFYPSDIAVEWES

24. US-09-925-179-8 (1-453)
US-08-466-163B-1 Sequence 19, Application US/08466163B

Sequence 19, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 19
LENGTH: 4
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 4 Optimized Score = 4 Significance = -0.16
Residue Identity = 100% Matches = 4 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

290 300 310 320 330 340 350
DGEVHNKAKPREEQNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYVTL

||||
APIE
X X

360 370 380
PPSREEMTKNQVSLTCLVKGFYPSDIAVEWES

25. US-09-925-179-8 (1-453)
US-08-466-163B-3 Sequence 31, Application US/08466163B

Sequence 31, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 31
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 4 Optimized Score = 4 Significance = -0.16
Residue Identity = 66% Matches = 4 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

10 20 30 40 50 60 70
EVLVESGGGLVQPGGSLRLSCAIVSGYSITGYSNNWIRQAPGKLEWVASITYDGSINYADSVKGRFTISR

||||
APSKGT
X X

80 90
DDSKNTFYIQMNSLRAEDTAVYYC

26. US-09-925-179-8 (1-453)
US-08-466-163B-1 Sequence 12, Application US/08466163B

Sequence 12, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 12
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 4 Optimized Score = 4 Significance = -0.16
Residue Identity = 66% Matches = 4 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

10 20 30 40 50 60 70
EVLVESGGGLVQPGGSLRLSCAIVSGYSITGYSNNWIRQAPGKLEWVASITYDGSINYADSVKGRFTISR

||||
APSKGT
X X

80 90
DDSKNTFYIQMNSLRAEDTAVYYC

27. US-09-925-179-8 (1-453)
US-08-466-163B-5 Sequence 52, Application US/08466163B

Sequence 52, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.

APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 52
LENGTH: 4
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment

Initial Score = 3 Optimized Score = 3 Significance = -0.17
Residue Identity = 75% Matches = 3 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0

280 290 300 310 320 330 340
DYSHPDPEYKFNWYDGVGVHNAKTPREEQNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT

DKGE
X X

350 360 370
SKAKGPREPQVYTLPPSREMTKNQVSLTCL

28. US-09-925-179-8 (1-453)
US-08-466-163B-2 Sequence 26, Application US/08466163B

Sequence 26, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 26
LENGTH: 4
TYPE: PRT
ORGANISM: Mus musculus

Initial Score = 3 Optimized Score = 3 Significance = -0.17
Residue Identity = 75% Matches = 3 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0

10 20 30 40 50 X X 60 70
LVBSGGGLVQPGGSLRLSCAIVSGYSITSGYSWNWIRQAPGKLEWASITVDGNTYADSVKGRFTISRDDS

YDGD
X X

80 90 100
KNTFYLQNSLRRAEDTAVYVCARGSHYFGHWH

29. US-09-925-179-8 (1-453)
US-08-466-163B-5 Sequence 54, Application US/08466163B

Sequence 54, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 54
LENGTH: 5
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment

Initial Score = 3 Optimized Score = 3 Significance = -0.17
Residue Identity = 60% Matches = 3 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

10 20 30 40 50 60 70
EVQLVGGGLVQPGGSLRLSCAIVSGYSITSGYSWNWIRQAPGKLEWASITVDGNTYADSVKGRFTISR
ACAVA
X X

DDS

30. US-09-925-179-8 (1-453)
US-08-466-163B-2 Sequence 23, Application US/08466163B

Sequence 23, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 23
LENGTH: 5
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Modified IgG1-derived sequence

Initial Score = 3 Optimized Score = 3 Significance = -0.17

Residue Identity = 60% Matches = 3 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0
10 20 X 30 40 50 60 70
EVOLVEGGGLVPGGSLRSLSCAVSGYSITSGYWNWIRQAPGKGLEWASITYDGTNYADSVKGRFTISR
|||
ACAVA
X X

DDS
31. US-09-925-179-8 (1-453)
US-08-466-163B-3 Sequence 33, Application US/08466163B

Sequence 33, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 33
LENGTH: 11
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 3 Optimized Score = 3 Significance = -0.17
Residue Identity = 27% Matches = 3 Mismatches = 8
Gaps = 0 Conservative Substitutions = 0
160 170 180 190 200 X 220
LVKDYFPFVTVWSNGALTSVHTFPAVLQSSGLYSLSVVTVFSSSLGTQTICNVNHPKSPNTKYDKKVE
|||
SRASGKPVNHS
X X 10

230 240 250 260
PKSCDKTHTCPCPAPPELLGGPSVFLFPPKPKDTLMISR

32. US-09-925-179-8 (1-453)
US-08-466-163B-1 Sequence 14, Application US/08466163B

Sequence 14, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64
SEQ ID NO 14
LENGTH: 11
TYPE: PRT
ORGANISM: Homo sapiens
Initial Score = 3 Optimized Score = 3 Significance = -0.17
Residue Identity = 27% Matches = 3 Mismatches = 8
Gaps = 0 Conservative Substitutions = 0

160 170 180 190 200 X 220
LVKDYFPFVTVWSNGALTSVHTFPAVLQSSGLYSLSVVTVFSSSLGTQTICNVNHPKSPNTKYDKKVE
|||
SRASGKPVNHS
X X 10

230 240 250 260
PKSCDKTHTCPCPAPPELLGGPSVFLFPPKPKDTLMISR

33. US-09-925-179-8 (1-453)
US-08-466-163B-5 Sequence 59, Application US/08466163B

Sequence 59, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 59
LENGTH: 4
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.19
Residue Identity = 50% Matches = 2 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0
300 310 320 330 340 350 X 360 370
EEQYNSTYRVSVLTVLHQLDNLGKEYCKVSNKALPAPIENTISKAKGPPEQVYTLPPSREENTKNQVS
|||
PRAA
X X

380 390 400
LTCLVKGFYPSDIAVEWESNGQPENNYKTPP

34. US-09-925-179-8 (1-453)
US-08-466-163B-5 Sequence 55, Application US/08466163B

Sequence 55, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 55
LENGTH: 4
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = -0.19
Residue Identity = 50% Matches = 2 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

40 50 60 70 80 90 100
WIRQAPGKLEWASITYDGSNTYADSVKGFRTISDRDSKNTFVLQMSLRAEDTAVVYCARGSHYFGWHF
||
RALM
X X

110 120 130 140
AWMGQGLTVTVSSASTKGPSVFPLAPSSKS

35. US-09-925-179-8 (1-453)
US-08-466-163B-4 Sequence 48, Application US/08466163B

Sequence 48, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 48
LENGTH: 4
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of Ige Fc(epsilon)3 fragment

Initial Score = 2 Optimized Score = -0.19
Residue Identity = 50% Matches = 2 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

120 130 140 150 160 170 180
LTVSSASTKGPSVFPLAPSSKSTSGGTAALGLVKDYFPEPTVSNVNSGALTSGVHTTTPAVLQSSGLYS
||
AGAA
X X

190 200 210
LSSVTVTPSSSLGTQTYICNVNHPKSNTRKVDK

36. US-09-925-179-8 (1-453)
US-08-466-163B-3 Sequence 30, Application US/08466163B

Sequence 30, Application US/08466163B

Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 30
LENGTH: 4
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant Ige Fc(epsilon)3 sequence fragment

Initial Score = 2 Optimized Score = -0.19
Residue Identity = 50% Matches = 2 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

270 280 290 300 310 320 330
CTVVDVSHEDPEVKFNWYDGVENVNAKTKPREQVNSTYRVSVLTVLHQDWLNGKEYKCKVKNKALPAPI
||
QDLH
X X

340 350 360 370
EKTIKAKGQPREPQVYTLPPSREEMTKNQVS

37. US-09-925-179-8 (1-453)
US-08-466-163B-2 Sequence 29, Application US/08466163B

Sequence 29, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 29
LENGTH: 4
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = -0.19
Residue Identity = 50% Matches = 2 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

200 210 220 230 240 250 260
SSSLGTQTYICNVNHPKSNTRKVDKVEPKSCDKTHTCPCPAPELGGPSVFLFPPKPKDRLMISRTPEVTC
||
FDLF
X X

270 280 290
VVVDVSHEDPEVKFNWYVDGVEVHNKTPRE
Gaps = 0 Conservative Substitutions = 0
290 300 310 320 330 340 350
DGVVEVHNKTPREQYNSTYRVSVLTVLHQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYVTL
APAAA
X X

38. US-09-925-179-8 (1-453)
US-08-466-163B-1 Sequence 18, Application US/08466163B

Sequence 18, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US 08/466,163B
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 18
LENGTH: 4
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = -0.19
Residue Identity = 50% Matches = 2 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

40 50 60 70 80 90 100
WIRQAPGKLEWVASITYDGTNYADSVKGRFTISRDSDKNTFYLQWNSLRRAEDTAVYYCARGSHYFGHWHF
RALM
X X
110 120 130 140
AWCQGTLVTVSSASTKGGPSVFPLAPSSKS

39. US-09-925-179-8 (1-453)
US-08-466-163B-6 Sequence 64, Application US/08466163B

Sequence 64, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US 08/466,163B
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 64
LENGTH: 5
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = -0.19
Residue Identity = 40% Matches = 2 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

Sequence 63, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US 08/466,163B
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 63
LENGTH: 5
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = -0.19
Residue Identity = 50% Matches = 2 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

400 410 420 430 440 450 X
TPPVLDSDGSFFLYSKLTVDRSRWQGNVFCSCVHVAHLNHYTKSLSPGK
SPSQT
X X

41. US-09-925-179-8 (1-453)
US-08-466-163B-5 Sequence 53, Application US/08466163B

Sequence 53, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US 08/466,163B
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 53
LENGTH: 5
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = -0.19
Residue Identity = 50% Matches = 2 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

Sequence 53, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US 08/466,163B
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 53
LENGTH: 5
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = -0.19
Residue Identity = 40% Matches = 2 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

400 410 420 430 440 450 X
TPPVLDSDGSFFLYSKLTVDRSRWQGNVFCSCVHVAHLNHYTKSLSPGK
SPSQT
X X

41. US-09-925-179-8 (1-453)
US-08-466-163B-5 Sequence 53, Application US/08466163B

Sequence 53, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US 08/466,163B
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 53
LENGTH: 5
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = -0.19
Residue Identity = 40% Matches = 2 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.19
Residue Identity = 40% Matches = 2 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

260 270 280 290 300 310 320
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYK

QCRVT
X X

330 340 350
CKVSNKALPAPIEKTISKAKGQPREPOVYTLPP

42. US-09-925-179-8 (1-453)
US-08-466-163B-2 Sequence 22, Application US/08466163B

Sequence 22, Application US/08466163B
Patent No. 6329509

GENERAL INFORMATION:
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64

SEQ ID NO 22
LENGTH: 5
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.19
Residue Identity = 40% Matches = 2 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

260 270 280 290 300 310 320
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYK

QCRVT
X X

330 340 350
CKVSNKALPAPIEKTISKAKGQPREPOVYTLPP

43. US-09-925-179-8 (1-453)
US-08-466-163B-6 Sequence 61, Application US/08466163B

Sequence 61, Application US/08466163B
Patent No. 6329509

GENERAL INFORMATION:
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
NUMBER OF SEQ ID NOS: 495

PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 61
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.19
Residue Identity = 33% Matches = 2 Mismatches = 4
Gaps = 0 Conservative Substitutions = 0

70 80 90 100 110 120 130 140
ISRDDSKNFTYLOMNSLRADETAVYICARSGHYFGHWFVAVWGQGLTVTVSSASTKGGPSVFFLAPSSKST

ASPSQT
X X

150 160 170
SGGTAALGCLVKDYFPEPVTWNSGALTSGLVHT

44. US-09-925-179-8 (1-453)
US-08-466-163B-4 Sequence 44, Application US/08466163B

Sequence 44, Application US/08466163B
Patent No. 6329509

GENERAL INFORMATION:
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64

SEQ ID NO 44
LENGTH: 6
TYPE: PRT
ORGANISM: Artificial sequence

FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment

Initial Score = 2 Optimized Score = 2 Significance = -0.19
Residue Identity = 33% Matches = 2 Mismatches = 4
Gaps = 0 Conservative Substitutions = 0

100 110 120 130 140 150 160
CARGSHYFGHWFVAVWGQGLTVTVSSASTKGGPSVFFLAPSSKSTSGGTAALGCLVKDYFPEPVTWNSG

AAEAQA
X X

170 180 190 200
ALTSQVHTFPVQLQSSGLYSLSVTVTPSSSLGT

45. US-09-925-179-8 (1-453)
US-08-466-163B-4 Sequence 43, Application US/08466163B

Sequence 43, Application US/08466163B
Patent No. 6329509

GENERAL INFORMATION:
APPLICANT: Presta, Leonard G.

FILE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 43
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 3 Significance = -0.19
Residue Identity = 50% Matches = 3 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

280 250 300 310 320 X 330 340
SHEDPEVKNFYVDGVEVHNKTKPREEQNSYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIETISK
|||
KEEKQR
X X X

350 360 370
AKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGF

46. US-09-925-179-8 (1-453)
US-08-466-163B-4 Sequence 42, Application US/08466163B

Sequence 42, Application US/08466163B

Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 42
LENGTH: 6
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of IGE Fc(epsilon)3 fragment

Initial Score = 2 Optimized Score = 2 Significance = -0.19
Residue Identity = 33% Matches = 2 Mismatches = 4
Gaps = 0 Conservative Substitutions = 0

250 300 310 320 330 X 340 350
NWYVDGVEVHNKTKPREEQNSYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIETISKAKGQPREPQ
|||
KAEAOA
X X X

360 370 380
VYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEW

47. US-09-925-179-8 (1-453)
US-08-466-163B-4 Sequence 41, Application US/08466163B

Sequence 41, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 41
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 3 Significance = -0.19
Residue Identity = 50% Matches = 3 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

280 290 300 310 320 X 330 340
SHEDPEVKNFYVDGVEVHNKTKPREEQNSYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIETISK
|||
KEEKQR
X X X

350 360 370
AKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGF

48. US-09-925-179-8 (1-453)
US-08-466-163B-4 Sequence 40, Application US/08466163B

Sequence 40, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 40
LENGTH: 6
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of IGE Fc(epsilon)3 fragment

Initial Score = 2 Optimized Score = 3 Significance = -0.19
Residue Identity = 50% Matches = 3 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

Sequence 35, Application US/08456163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Gardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE OF INVENTION: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 35

LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.19
Residue Identity = 33% Matches = 2 Mismatches = 4
Gaps = 0 Conservative Substitutions = 0
310 320 330 340 350 360 370 380
SVLTVLHODWLNQKEYCKVSKNKPAPLPIETISKAKGQPREQVYILPPSREMTKNQVSLTCLVKGFPYS
|||
SRASGK
X X

390 400 410
DIAVESNGQPENNYKTTPVLDSDGFFLYSK

53. US-09-925-179-8 (1-453)
US-08-466-163B-2 Sequence 20, Application US/08466163B

Sequence 20, Application US/08466163B
Patent No. 6329509

GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 20

LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 3 Significance = -0.19
Residue Identity = 50% Matches = 3 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

280 290 300 310 320 330 340
SHEDPEVKFNVDGVEVHNAKTRFEEQYNSTYRVSVLTVLHQDWLNGKEYCKVKYNKALPAPIETISK
|||
KEEQR
X X

350 360 370
AKGQPREQVYILPPSREMTKNQVSLTCLVKGK

54. US-09-925-179-8 (1-453)
US-08-466-163B-5 Sequence 58, Application US/08466163B

Sequence 58, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.

APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 58
LENGTH: 8

TYPE: PRT
ORGANISM: Artificial sequence
FEATURES:

OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon) fragment

Initial Score = 2 Optimized Score = 2 Significance = -0.19
Residue Identity = 25% Matches = 2 Mismatches = 6
Gaps = 0 Conservative Substitutions = 0

100 110 120 130 140 150 160
YYCARGSHYFGHWHFAVWGQGLTVTVSSASTKGKPSVPLAPSKSTSGTAAAGCLVKDYFPEPVTVSWN
|||
AAAWLAAA
X X

170 180 190 200
SGALTSGVHTFPAVLQSSGLYSLSSVTVTPPSSSLGT

55. US-09-925-179-8 (1-453)
US-08-466-163B-5 Sequence 57, Application US/08466163B

Sequence 57, Application US/08466163B
Patent No. 6329509

GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 57

LENGTH: 8

TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 3 Significance = -0.19
Residue Identity = 44% Matches = 4 Mismatches = 4
Gaps = 1 Conservative Substitutions = 0

400 410 420 430 440 450 X
ENNYKTPPVLDSDGFFLYSKLTVDKSRWQQNVFSCVMHEALHNHYTKSLSPGK
|||
QK-HWLSDR
X X

56. US-09-925-179-8 (1-453)

US-08-466-163B-2 Sequence 27, Application US/08466163B

Sequence 27, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 27

LENGTH: 8

TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 3 Significance = -0.19

Residue Identity = 37% Matches = 3 Mismatches = 5

Gaps = 0 Conservative Substitutions = 0

SSSLGTQVICNVNHPKSNKVDKVKPEKSCDTHCPCPAPELGSPSVLFPPKPKDITLMISRTPEVTC

200 210 220 230 240 X 250 X 260

FDLFIKKS

X

X

X

X

X

X

X

X

X

X

X

X

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59. US-09-925-179-8 (1-453)

US-08-466-163B-1 Sequence 10, Application US/08466163B

Sequence 10, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 10

LENGTH: 8

TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 3 Significance = -0.19

Residue Identity = 37% Matches = 3 Mismatches = 5

Gaps = 0 Conservative Substitutions = 0

SSSLGTQVICNVNHPKSNKVDKVKPEKSCDTHCPCPAPELGSPSVLFPPKPKDITLMISRTPEVTC

200 210 220 230 240 X 250 X 260

FDLFIKKS

X

X

X

X

X

X

X

X

X

X

X

Gaps = 0 Conservative Substitutions = 0

200 210 220 230 240 X 250 X 260
SSSLGTTTCVNNHKSNTKVDKVEPKSCDKTCTPCPAPELLGGPSVFLFPPKPKDITLMISRTPEVTC
|||
FDLFIKRS
X X X

270 280 290 300
VVVDVSHEDDEVKFNWTVGDGVVHNAXTKPRERQYN

60. US-09-925-179-8 (1-453)
US-08-466-163B-4 Sequence 49, Application US/08466163B

Sequence 49, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 49
LENGTH: 9
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.19
Residue Identity = 22% Matches = 2 Mismatches = 7
Gaps = 0 Conservative Substitutions = 0

30 40 50 60 70 80 90
SCAVSYISITSGYSNNWIRQPGKLEWASITVDGSIYADSVKGRFTISRDDSKNTPFYLQNNLSRAETA
|||
TRDWIEGET
X X

100 110 120
VYICARGSHYFGHWHFAVWGQGLTVTVSSASTKGKGP

61. US-09-925-179-8 (1-453)
US-08-466-163B-4 Sequence 45, Application US/08466163B

Sequence 45, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64

SEQ ID NO 45
LENGTH: 10
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.19
Residue Identity = 20% Matches = 2 Mismatches = 8
Gaps = 0 Conservative Substitutions = 0

100 110 120 130 140 X 150 X 160
YYCARGSHYFGHWHFAVWGQGLTVTVSSASTKGKGPSVFLAPSSKSTSGTAAALGCLVKDYFPEPVTVSWN
|||
GTRDWIEGET
X X

170 180 190 200
SGALTSGVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQT

62. US-09-925-179-8 (1-453)
US-08-466-163B-1 Sequence 16, Application US/08466163B

Sequence 16, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 16
LENGTH: 10
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.19
Residue Identity = 20% Matches = 2 Mismatches = 8
Gaps = 0 Conservative Substitutions = 0

100 110 120 130 140 X 150 X 160
YYCARGSHYFGHWHFAVWGQGLTVTVSSASTKGKGPSVFLAPSSKSTSGTAAALGCLVKDYFPEPVTVSWN
|||
GTRDWIEGET
X X

170 180 190 200
SGALTSGVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQT

IntelliGenetics

FastDB - Fast Pairwise Comparison of Sequences Release 5.4

Results file us-09-925-179-9.res made by bshears on Tue 25 May 104 14:10:45-PDT.

Query sequence being compared:US-09-925-179-9 (1-218)
 Number of sequences searched: 64
 Number of scores above cutoff: 62

Results of the initial comparison of US-09-925-179-9 (1-218) with:
File : /home/bshears/6329*

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Sequences

1.	US-08-466-163B-9	Sequence 9, Application U	218	218	218	218	6.86	0
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The list of other best scores is:

Sequence Name	Description	Length	Score	Init. Opt.
2.	US-08-466-163B-2 Sequence 2, Application U	111	85	85
3.	US-08-466-163B-6 Sequence 6, Application U	106	83	83
4.	US-08-466-163B-4 Sequence 4, Application U	124	42	80
5.	US-08-466-163B-8 Sequence 8, Application U	453	11	62
6.	US-08-466-163B-5 Sequence 5, Application U	130	7	36
7.	US-08-466-163B-3 Sequence 3, Application U	134	7	37
8.	US-08-466-163B-7 Sequence 7, Application U	137	7	32
9.	US-08-466-163B-1 Sequence 1, Application U	109	6	18
10.	US-08-466-163B-3 Sequence 3, Application U	6	5	5
11.	US-08-466-163B-1 Sequence 1, Application U	6	5	5
12.	US-08-466-163B-2 Sequence 2, Application U	4	4	4
13.	US-08-466-163B-3 Sequence 3, Application U	6	4	4
14.	US-08-466-163B-2 Sequence 2, Application U	9	4	4
15.	US-08-466-163B-1 Sequence 1, Application U	11	4	4
16.	US-08-466-163B-3 Sequence 3, Application U	11	4	4
17.	US-08-466-163B-1 Sequence 1, Application U	4	3	3
18.	US-08-466-163B-6 Sequence 6, Application U	4	3	3
19.	US-08-466-163B-6 Sequence 6, Application U	5	3	3
20.	US-08-466-163B-5 Sequence 5, Application U	5	3	3
21.	US-08-466-163B-2 Sequence 2, Application U	6	3	3
22.	US-08-466-163B-6 Sequence 6, Application U	6	3	3
23.	US-08-466-163B-4 Sequence 4, Application U	6	3	3
24.	US-08-466-163B-3 Sequence 3, Application U	6	3	3
25.	US-08-466-163B-3 Sequence 3, Application U	6	3	3
26.	US-08-466-163B-2 Sequence 2, Application U	6	3	3
27.	US-08-466-163B-1 Sequence 1, Application U	6	3	3
28.	US-08-466-163B-5 Sequence 5, Application U	4	2	2
29.	US-08-466-163B-5 Sequence 5, Application U	4	2	2
30.	US-08-466-163B-5 Sequence 5, Application U	4	2	2
31.	US-08-466-163B-5 Sequence 5, Application U	4	2	2
32.	US-08-466-163B-5 Sequence 5, Application U	4	2	2
33.	US-08-466-163B-4 Sequence 4, Application U	4	2	2
34.	US-08-466-163B-4 Sequence 4, Application U	4	2	2
35.	US-08-466-163B-3 Sequence 3, Application U	4	2	2
36.	US-08-466-163B-1 Sequence 1, Application U	4	2	2
37.	US-08-466-163B-1 Sequence 1, Application U	4	2	2
38.	US-08-466-163B-6 Sequence 6, Application U	5	2	2
39.	US-08-466-163B-5 Sequence 5, Application U	5	2	2
40.	US-08-466-163B-2 Sequence 2, Application U	5	2	2
41.	US-08-466-163B-4 Sequence 4, Application U	6	2	2
42.	US-08-466-163B-4 Sequence 4, Application U	6	2	2
43.	US-08-466-163B-4 Sequence 4, Application U	6	2	2
44.	US-08-466-163B-4 Sequence 4, Application U	6	2	2
45.	US-08-466-163B-3 Sequence 3, Application U	6	2	2
46.	US-08-466-163B-3 Sequence 3, Application U	6	2	2
47.	US-08-466-163B-3 Sequence 3, Application U	6	2	2
48.	US-08-466-163B-2 Sequence 2, Application U	6	2	2
49.	US-08-466-163B-5 Sequence 5, Application U	8	2	2
50.	US-08-466-163B-5 Sequence 5, Application U	8	2	2
51.	US-08-466-163B-2 Sequence 2, Application U	8	2	2
52.	US-08-466-163B-2 Sequence 2, Application U	8	2	2
53.	US-08-466-163B-2 Sequence 2, Application U	8	2	2
54.	US-08-466-163B-1 Sequence 1, Application U	10	2	2
55.	US-08-466-163B-5 Sequence 5, Application U	9	2	2
56.	US-08-466-163B-4 Sequence 4, Application U	9	2	2
57.	US-08-466-163B-4 Sequence 4, Application U	10	2	2
58.	US-08-466-163B-4 Sequence 4, Application U	10	2	2
59.	US-08-466-163B-1 Sequence 1, Application U	16	2	2
60.	US-08-466-163B-1 Sequence 1, Application U	16	2	2
61.	US-08-466-163B-1 Sequence 1, Application U	11	2	2
62.	US-08-466-163B-1 Sequence 1, Application U	11	2	2

Sequence Name	Description	Length	Score	Sig.	Frame
...

1. US-09-925-179-9 (1-218)
US-08-466-163B-9 Sequence 9, Application US/08466163B

Sequence 9, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 9

LENGTH: 218

TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: humanized maell, version 1, light chain

Initial Score = 218 Optimized Score = 218 Significance = 6.86
Residue Identity = 100% Matches = 218 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

```
X      10      20      30      40      50      60      70
DIQLTQSPSSLSASVGRVITTCRASQSDYDGDSDYNNWYQOKPGKAPKLLIYAASYLESGVPSRFGSGSG
|||||
DIQLTQSPSSLSASVGRVITTCRASQSDYDGDSDYNNWYQOKPGKAPKLLIYAASYLESGVPSRFGSGSG
X      10      20      30      40      50      60      70
```

```
TDFTLTITSSLOPEDFATYCCQSHEDPYTFGQGTKEIKRTVAAPSVFIFPPSDEQLKSGTASVVCCLNNFY
|||||
TDFTLTITSSLOPEDFATYCCQSHEDPYTFGQGTKEIKRTVAAPSVFIFPPSDEQLKSGTASVVCCLNNFY
80      90      100      110      120      130      140
```

```
150      160      170      180      190      200      210
PRAKQVQKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKKHKVYACEVTHQGLSPVTKSFNRG
|||||
PRAKQVQKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKKHKVYACEVTHQGLSPVTKSFNRG
150      160      170      180      190      200      210
```

X
EC
||
EC
X

2. US-09-925-179-9 (1-218)
US-08-466-163B-2 Sequence 2, Application US/08466163B

Sequence 2, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

CURRENT APPLICATION NUMBER: US/08/466,163B

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 2

LENGTH: 111

TYPE: PRT

ORGANISM: Mus musculus

Initial Score = 85 Optimized Score = 85 Significance = 2.49
Residue Identity = 76% Matches = 85 Mismatches = 26
Gaps = 0 Conservative Substitutions = 0

```
X      10      20      30      40      50      60      70
DIQLTQSPSSLSASVGRVITTCRASQSDYDGDSDYNNWYQOKPGKAPKLLIYAASYLESGVPSRFGSGSG
|||||
DIQLTQSPSSLSASVGRVITTCRASQSDYDGDSDYNNWYQOKPGKAPKLLIYAASYLESGVPSRFGSGSG
X      10      20      30      40      50      60      70
```

```
TDFTLTITSSLOPEDFATYCCQSHEDPYTFGQGTKEIKRTVAAPSVFIFPPSDEQLKSGTASVVCCLNNFY
|||||
TDFTLTITSSLOPEDFATYCCQSHEDPYTFGQGTKEIKRTVAAPSVFIFPPSDEQLKSGTASVVCCLNNFY
80      90      100      110      120      130      140
```

150
PRAKQVQKVDNALQSG

3. US-09-925-179-9 (1-218)
US-08-466-163B-6 Sequence 6, Application US/08466163B

Sequence 6, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 6

LENGTH: 106

TYPE: PRT

ORGANISM: Mus musculus

Initial Score = 83 Optimized Score = 83 Significance = 2.43
Residue Identity = 78% Matches = 83 Mismatches = 23
Gaps = 0 Conservative Substitutions = 0

```
X      10      20      30      40      50      60      70
DIQLTQSPSSLSASVGRVITTCRASQSDYDGDSDYNNWYQOKPGKAPKLLIYAASYLESGVPSRFGSGSG
|||||
DIQLTQSPSSLSASVGRVITTCRASQSDYDGDSDYNNWYQOKPGKAPKLLIYAASYLESGVPSRFGSGSG
X      10      20      30      40      50      60      70
```

```
TDFTLTITSSLOPEDFATYCCQSHEDPYTFGQGTKEIKRTVAAPSVFIFPPSDEQLKSGTASVVCCLNNFY
|||||
TDFTLTITSSLOPEDFATYCCQSHEDPYTFGQGTKEIKRTVAAPSVFIFPPSDEQLKSGTASVVCCLNNFY
80      90      100      110      120      130      140
```

150

PREAKVQWKVDN

4. US-09-925-179-9 (1-218)
US-08-466-163B-4 Sequence 4, Application US/08466163B

Sequence 4, Application US/08466163B
Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 4

LENGTH: 124
TYPE: PRT

ORGANISM: Mus musculus

Initial Score = 42 Optimized Score = 80 Significance = 1.08
Residue Identity = 64% Matches = 82 Mismatches = 41
Gaps = 5 Conservative Substitutions = 0

X 10 20 30 40 50 60 70
DIQLTQSPSSLSASVGRVTITCRASQSDVDGSDYNNWYQOKPKAPKLLIYAASYLESGVPSRSGSG
DIVMTQOKFMSTSVGRVSVTCKASQNV-----SSNVAVYQOKPGQFKALIYSASYRSGVDPDRFTGSGSG
X 10 20 30 40 50 60
80 90 100 110 120 130 140
TDFTLTSSLOPEDFATVYCCQSHEDP-YTQGQTKVEIKETVAAPSVFPFPPSDQLKSGTASVVCLLANF
TDFTLTSSVQSDLAIEFCQYTYPLTYTGGGKLEIKGADAAPTVSIFPPSTR
70 80 90 100 110 120 130 140
YPREAKVQWKVDNALQSGNSQESVTEQDSKDSY

5. US-09-925-179-9 (1-218)
US-08-466-163B-8 Sequence 8, Application US/08466163B

Sequence 8, Application US/08466163B
Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 8

LENGTH: 453
TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: humanized mae11, version 1 heavy chain

Initial Score = 11 Optimized Score = 62 Significance = 0.07
Residue Identity = 32% Matches = 76 Mismatches = 131
Gaps = 30 Conservative Substitutions = 0

X 10 20 30 40 50 60
DIQLTQSPSSLSASVGRVTITCRASQSDVDGSDYNNWYQOKPKGK---APKLLIYAAS--YLESGVPSRF-
EVQLVESGGGL-VQPGGSLRLSCAASGYSITSGYS-WNIRCAPGKLEWVASITYDGSNTYADS-VKGRFT
X 10 20 30 40 50 60
70 80 90 100 110 120 130
-SGSGGTFTLTISLQPEDFATVYC-QQSH-----EDPYTFGQTKVEIKETV-----AAPSVFPFPPS
ISRDDSKNTFYLQAMSLRAEDTAVYVCARGSHYFGHMFHFAVWGQTLV---TVSSASTKGGKGPSPVFLAPS
X 10 20 30 40 50 60
130 140 150 160 170 180 190
DEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSYLSLSTLTLSKADTEKHKVYA
SKSTSGGTAAAGCLVKDYFPEPVYFSW-NSGALTSGVHTFPAVLQSS--GLYSLSVSVT-VPSSSLGTQTYI
140 150 160 170 180 190 200
200 210 X
CEVTHQGLSSPYTKSFNRCGEC

6. US-09-925-179-9 (1-218)
US-08-466-163B-5 Sequence 5, Application US/08466163B

Sequence 5, Application US/08466163B
Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 5

LENGTH: 130
TYPE: PRT

ORGANISM: Mus musculus

Initial Score = 7 Optimized Score = 37 Significance = -0.07
Residue Identity = 31% Matches = 45 Mismatches = 75
Gaps = 21 Conservative Substitutions = 0

X 10 20 30 40 50 60
DIQLTQSPSSL---SASVGRVTTITCRASQSDYNNWYQOKPG-KAPKLLIYAASYLESGVPSRFS-
DVQLQSGPGLVKPQSLSLTCTVGTITTS-----DNAWNWIRQPPGNKLEWGMGYINHSHTSYNPSLKSR
X 10 20 30 40 50 60
70 80 90 100 110 120
-----GSGSGTDTLTISLQPEDFATVYC-QQSHEDPYTFGQTKVEIKETVAAPSVFPFPPSDQLKSGTA
ISITRDTSKNQFFLQLNSVTETDTATYCAWVAVAMDYWGQTSV-----TV--SSAKTTPSPVPLAR

70 80 90 100 110 120 130
140 150 160 170 180
SVVCLNNFYPREAKVQKVDNALQSGNSQESVTEQDSKDYSLSS

7. US-09-925-179-9 (1-218)
US-08-466-163B-3 Sequence 3, Application US/08466163B

Sequence 3, Application US/08466163B

Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR FILING DATE: US 08/405,617
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64

SEQ ID NO 3

LENGTH: 134

TYPE: PRT

ORGANISM: Mus musculus

Initial Score = 7 Optimized Score = 36 Significance = -0.07
Residue Identity = 32% Matches = 49 Mismatches = 67
Gaps = 33 Conservative Substitutions = 0

X DIQLTQS-----PSSLSASVGDRTVITCRASQSDVDGDSYMNWYQKPGKAPKL-LIYAASYLESGVPS
DVQLQSGPLVQPSQSLACSVTGYSITS-----GYS-WNWIQFPFG--NKLEWMSITYDGSNTNPS
X 10 20 30 40 50 60

----RFS--GSGSGTDFLTITSSLOPEDFAIYIC-QQSH-----EDPTFGQGTKEIKRTVAAPSFIFFPSD
LKNRISVTRDTSONQFPFLKLSATADTATYICARGSHYFGWHFVWAGAGTTV-----TV--SSAKTTTPSV
70 80 90 100 110 120

130 140 150 160 170 180
EQLKSGTASVVCLLNNFYPREAKVQKVDNALQSGNSQESVTEQDSKDYSLSS

YPLAR

130 X

8. US-09-925-179-9 (1-218)
US-08-466-163B-7 Sequence 7, Application US/08466163B

Sequence 7, Application US/08466163B

Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR FILING DATE: US 08/405,617
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 7

LENGTH: 137

TYPE: PRT

ORGANISM: Mus musculus

Initial Score = 7 Optimized Score = 32 Significance = -0.07
Residue Identity = 27% Matches = 40 Mismatches = 78
Gaps = 26 Conservative Substitutions = 0

X 10 20 30 40 50 60
DIQLTQSPSSI---SASVGDRTVITCRASQSDVDGDSYMNWYQKPGKAPKLIIYAASYLESGVPS--
DVQHQSEPDLVKPSQSLSTCTVT-----GYSITSGYNRHWIQPFQPNKLEWGYIHYSGSTNPNPSLK
X 10 20 30 40 50 60

-RFS--GSGSGTDFLTITSSLOPEDFAIYICQOSHEDPY-----TFQGTKEIKRTVAAPSFIFFPS
PRISITRDTSKNQFPFLQNSVTEDTATYICARGSIYYGSRVRYFDVWAGAGTTVTVSSAKRPHLSIHWFEG
70 80 90 100 110 120 130 X

130 140 150 160 170
DEQLKSGTASVVCLLNNFYPREAKVQKVDNALQSGNSQESVTEQDSKDS

9. US-09-925-179-9 (1-218)
US-08-466-163B-1 Sequence 1, Application US/08466163B

Sequence 1, Application US/08466163B

Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR FILING DATE: US 08/405,617
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64

SEQ ID NO 1

LENGTH: 109

TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 6 Optimized Score = 18 Significance = -0.10
Residue Identity = 20% Matches = 26 Mismatches = 73
Gaps = 26 Conservative Substitutions = 0

X 10 20 30 40 50 60
DIQLTQSPSSLS-ASVGD-----RVTTICRASQSDVDGDSYMNWYQKPGKAPKLIIYAASYLESGVPSR
DSNPRGVSAYLSRPSFPDLFIRKSGPTITC---LVVD-----LAPSKGTVNLTWSRAS--GKPVNHS
X 10 20 30 40 50

70 80 90 100 110 120 130
FSGSGSGTDFLTITSSLOP---EDFATYICQOSHEDPYTFQGTKEIKRTVAAPSFIFFPSDEQLKSGTA
TEKEEKQRNGTLTVTSTLTPVGTDRWIEGETQCRVTHPLPALMRSTTKSGP
60 70 80 90 100 110 X

140 150 160
SVVCLNNFYPREAKVQKVDNALQSGNSQES

|||||
SHEDPQ
X X

10. US-09-925-179-9 (1-218)
US-08-466-163B-3 Sequence 32, Application US/08466163B

Sequence 32, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 32
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 5 Optimized Score = 5 Significance = -0.13
Residue Identity = 83% Matches = 5 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0

50 60 70 80 90 100 110
GKAPKLLIYAASYLESGVPSRFGSGSGDTFTLTSSLPEDFATYYCQSHEDPPTFGQTKVEIKRTVAA

|||||
SHEDPQ
X X

120 130 140 150
PSVFIFFPSDEQLKSGTASVVCLLNNFYPREAKV

11. US-09-925-179-9 (1-218)
US-08-466-163B-1 Sequence 13, Application US/08466163B

Sequence 13, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 13
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 5 Optimized Score = 5 Significance = -0.13
Residue Identity = 83% Matches = 5 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0

50 60 70 80 90 100 110
GKAPKLLIYAASYLESGVPSRFGSGSGDTFTLTSSLPEDFATYYCQSHEDPPTFGQTKVEIKRTVAA

120 130 140 150
PSVFIFFPSDEQLKSGTASVVCLLNNFYPREAKV

12. US-09-925-179-9 (1-218)
US-08-466-163B-2 Sequence 26, Application US/08466163B

Sequence 26, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 26
LENGTH: 4
TYPE: PRT
ORGANISM: Mus musculus

Initial Score = 4 Optimized Score = 4 Significance = -0.16
Residue Identity = 100% Matches = 4 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

10 20 30 40 50 60 70
DIQLTQSPSSLSASVGDRTTICRASQVDYDGSVMWYQKPGKAPKLLIYAASYLESGVPSRFGSGSG

|||||
YDGD
X X

80
TDFTLTSSLPQ

13. US-09-925-179-9 (1-218)
US-08-466-163B-3 Sequence 35, Application US/08466163B

Sequence 35, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 35
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 4 Optimized Score = 4 Significance = -0.16
Residue Identity = 66% Matches = 4 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

SVGDRVTITCRASQSDVDGDSYMWYQKPGKAPKLLIYAASYLESGVPSRFGSGSGTDTLTITSSLOPE

SRASGK
X X

DPATYYCQSHEDPYTFGGTKVEIKRTVAAPSV

14. US-09-925-179-9 (1-218)
US-08-466-163B-2 Sequence 28, Application US/08466163B

Sequence 28, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

TITLE OF INVENTION: Immunglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

PRIOR FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 28

LENGTH: 9

TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 4 Optimized Score = 4 Significance = -0.16
Residue Identity = 44% Matches = 4 Mismatches = 5
Gaps = 0 Conservative Substitutions = 0

RASQSDVDGDSYMWYQKPGKAPKLLIYAASYLESGVPSRFGSGSGTDTLTITSSLOPEDPATYYCQOS

KDTLMISRT
X X

HEDPYTFGGTKVEIKRTVAAPSVFIFFPSDEQLKSG

15. US-09-925-179-9 (1-218)
US-08-466-163B-1 Sequence 11, Application US/08466163B

Sequence 11, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

TITLE OF INVENTION: Immunglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

PRIOR FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 11

LENGTH: 9

TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 4 Optimized Score = 4 Significance = -0.16
Residue Identity = 44% Matches = 4 Mismatches = 5
Gaps = 0 Conservative Substitutions = 0

RASQSDVDGDSYMWYQKPGKAPKLLIYAASYLESGVPSRFGSGSGTDTLTITSSLOPEDPATYYCQOS

KDTLMISRT
X X

HEDPYTFGGTKVEIKRTVAAPSVFIFFPSDEQLKSG

16. US-09-925-179-9 (1-218)
US-08-466-163B-3 Sequence 33, Application US/08466163B

Sequence 33, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

TITLE OF INVENTION: Immunglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

PRIOR FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 33

LENGTH: 11

TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 4 Optimized Score = 4 Significance = -0.16
Residue Identity = 36% Matches = 4 Mismatches = 7
Gaps = 0 Conservative Substitutions = 0

SVGDRVTITCRASQSDVDGDSYMWYQKPGKAPKLLIYAASYLESGVPSRFGSGSGTDTLTITSSLOPE

SRASGKPVNHS
X 10

DFATYYCQSHEDPYTFGGTKVEIKRTVAAPSVFIFFPP

17. US-09-925-179-9 (1-218)
US-08-466-163B-1 Sequence 14, Application US/08466163B

Sequence 14, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

TITLE OF INVENTION: Immunglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 14
LENGTH: 11
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 4 Optimized Score = 4 Significance = -0.16
Residue Identity = 36% Matches = 4 Mismatches = 7
Gaps = 0 Conservative Substitutions = 0

20 30 40 50 60 70 80
SVGDRVTITCRASQSDYDGSYMNWYQKPKLLIYAASYLESGVPSRFGSGTDTLTISLQPE
|||
SRASGKPVNHS
X 10

90 100 110 120
DFATYCOQSHEDPYTFGGQTKVEIKRTVAAPSVFIPPP

18. US-09-925-179-9 (1-218)
US-08-466-163B-6 Sequence 60, Application US/08466163B

Sequence 60, Application US/08466163B
Patent No. 6329509

GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 60
LENGTH: 4
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:

OTHER INFORMATION: Mutant sequence substituted in place of Ige Fc(epsilon)3 fragment

Initial Score = 3 Optimized Score = 3 Significance = -0.20
Residue Identity = 75% Matches = 3 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0

100 110 120 130 140 150 160
QSHEDPYTFGGQTKVEIKRTVAAPSVFIPPPDEQLKSGTASVWCLLNNFYPREAKVQKVDNALQSGNSOE
|||
QPRE
X X X

170 180 190
SVTEQDSKDSYSLSTLTLSKADYKHKVYA

19. US-09-925-179-9 (1-218)
US-08-466-163B-6 Sequence 63, Application US/08466163B

Sequence 63, Application US/08466163B

Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 63
LENGTH: 5
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 3 Optimized Score = 3 Significance = -0.20
Residue Identity = 60% Matches = 3 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

X 10 20 30 40 50 60
DIQLTQSPSLSASVGDRTVITCRASQSDYDGSYMNWYQKPKLLIYAASYLESG
|||
SPSQT
X X

20. US-09-925-179-9 (1-218)
US-08-466-163B-5 Sequence 53, Application US/08466163B

Sequence 53, Application US/08466163B

Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 53
LENGTH: 5
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 3 Optimized Score = 3 Significance = -0.20
Residue Identity = 60% Matches = 3 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

10 X 20 30 40 50 60 70
DIQLTQSPSLSASVGDRTVITCRASQSDYDGSYMNWYQKPKLLIYAASYLESGVPSRFGSG
|||
QCRVT
X X

21. US-09-925-179-9 (1-218)

US-08-466-163B-2 Sequence 22, Application US/08466163B

Sequence 22, Application US/08466163B

Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 22
LENGTH: 5
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 3 Optimized Score = 3 Significance = -0.20
Residue Identity = 60% Matches = 3 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

DIQLTQSPSSLSASVGDRTVITTCRASQVDYDGSYNNWYQKPGKAPKLLIYAASYLESGVPSRFSGSG
10 X 20 30 40 50 60 70
|||
QCRVT
X X

22. US-09-925-179-9 (1-218)

US-08-466-163B-6 Sequence 61, Application US/08466163B

Sequence 61, Application US/08466163B

Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 61
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 3 Optimized Score = 3 Significance = -0.20
Residue Identity = 50% Matches = 3 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

X 10 20 30 40 50 60
|||
ASPSQT
X X

DIQLTQSPSSLSASVGDRTVITTCRASQVDYDGSYNNWYQKPGKAPKLLIYAASYLESG

23. US-09-925-179-9 (1-218)
US-08-466-163B-4 Sequence 40, Application US/08466163B

Sequence 40, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 40
LENGTH: 6
TYPE: PRT
ORGANISM: Artificial sequence

FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment
Initial Score = 3 Optimized Score = 3 Significance = -0.20
Residue Identity = 50% Matches = 3 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

100 110 120 130 140 150 160
HEDPYTGQGTKEIKETVAAPSVFIFPPSDEQLKSGTASVCLLNNFYPRKQVKWKNALQSGNSQBSV
|||
AEAKAR
X X

170 180 190 200
TEQDSKDSYLSLSTLTLSKADYEKHKVYACEVT

24. US-09-925-179-9 (1-218)

US-08-466-163B-3 Sequence 38, Application US/08466163B

Sequence 38, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 38
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 3 Optimized Score = 3 Significance = -0.20
Residue Identity = 50% Matches = 3 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

100 110 120 130 140 150 160

SHEDPYTGGQTKVEIKRTVAAPSVFIFFPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQES

||||
PREQQY
X X X

170 180 190 200
VTEQDSKDSVSLSTLTLSKADYEKHKVYACEV

25. US-09-925-179-9 (1-218)
US-08-466-163B-3 Sequence 31, Application US/08466163B

Sequence 31, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 31

LENGTH: 6

TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 3 Optimized Score = 3 Significance = -0.20
Residue Identity = 50% Matches = 3 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

70 80 90 100 110 120 130
FSGSGSGTDTLTITSLQPEDFATYYCQSHEDPYTFGQTKVEIKRTVAAPSVFIFFPSDEQLKSGTASV

||||
APSKGT
X X X

140 150 160 170
CLLNNFYPREAKVQWKVDNALQSGNSQESVTEQD

26. US-09-925-179-9 (1-218)
US-08-466-163B-2 Sequence 21, Application US/08466163B

Sequence 21, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 21

LENGTH: 6

TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 3 Optimized Score = 3 Significance = -0.20
Residue Identity = 50% Matches = 3 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

100 110 120 130 140 150 160
SHEDPYTGGQTKVEIKRTVAAPSVFIFFPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQES

||||
PREQQY
X X X

170 180 190 200
VTEQDSKDSVSLSTLTLSKADYEKHKVYACEV

27. US-09-925-179-9 (1-218)
US-08-466-163B-1 Sequence 12, Application US/08466163B

Sequence 12, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 12

LENGTH: 6

TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 3 Optimized Score = 3 Significance = -0.20
Residue Identity = 50% Matches = 3 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

70 80 90 100 110 120 130
FSGSGSGTDTLTITSLQPEDFATYYCQSHEDPYTFGQTKVEIKRTVAAPSVFIFFPSDEQLKSGTASV

||||
APSKGT
X X X

140 150 160 170
CLLNNFYPREAKVQWKVDNALQSGNSQESVTEQD

28. US-09-925-179-9 (1-218)
US-08-466-163B-5 Sequence 59, Application US/08466163B

Sequence 59, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

CURRENT FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 59
LENGTH: 4
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 3 Significance = -0.23
Residue Identity = 75% Matches = 3 Mismatches = 1
Gaps = 0 Conservative Substitutions = 0

100 110 120 130 140 150 160
SHEDPYTFOGKVEIKRTVAAPSVFIPPPDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQBS

||
PRAA
X X

170 180 190
VTEQSKDSTYSLSTLTLKADYKHKVYAC

29. US-09-925-179-9 (1-218)
US-08-466-163B-5 Sequence 56, Application US/08466163B

Sequence 56, Application US/08466163B
Patent No. 6329509

GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 56
LENGTH: 4

TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of Ige Fc(epsilon)3 fragment

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 50% Matches = 2 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

70 80 90 100 110 120 130
FSGSGGTDFLTITSLQPEDFATYYCQQSHEDPYTFGQTKVEIKRTVAAPSVFIPPSDEQLKSGTASV

||
APTE
X X

140 150 160
CLLNNFYPREAKVQWKVDNALQSGNSQESVTE

30. US-09-925-179-9 (1-218)
US-08-466-163B-5 Sequence 55, Application US/08466163B

Sequence 55, Application US/08466163B
Patent No. 6329509

GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 55
LENGTH: 4
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 50% Matches = 2 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

DIQLTQSPSSLSASVGRVTTITCRASQSDVDGDSYNNWYQKPKAPKLLIYAASYLESVPSRFSGSGSG

10 20 X X 30 40 50 60 70
||
RALM
X X

TDFTL

31. US-09-925-179-9 (1-218)
US-08-466-163B-5 Sequence 52, Application US/08466163B

Sequence 52, Application US/08466163B
Patent No. 6329509

GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 52
LENGTH: 4

TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of Ige Fc(epsilon)3 fragment

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 50% Matches = 2 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

DIQLTQSPSSLSASVGRVTTITCRASQSDVDGDSYNNWYQKPKAPKLLIYAASYLESVPSRFSGSGSG

10 20 30 X X 40 50 60 70
||
DGKE
X X

80
TDFTLITSSLQPE

AGAA
X X

32. US-09-925-179-9 (1-218)
US-08-466-163B-5 Sequence 51, Application US/08466163B

Sequence 51, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 51
LENGTH: 4
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 50% Matches = 2 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

170 180 190 200 210 X X
ESVTEQDSKSTYLSLSTLTSKADYEKHKYACEVTHQGLSSPVTKSFNRGEC
||
EGET
X X

33. US-09-925-179-9 (1-218)
US-08-466-163B-4 Sequence 48, Application US/08466163B

Sequence 48, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 48
LENGTH: 4
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 50% Matches = 2 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

70 80 90 100 110 X X 120 130
PSRFGSGSGTDFLTLSLQPEDPATYCCQSHEDPTFGGTVKRTVAAPSVFIFPPSDEQLKSGTA
||

140 150 160
SVVCLNNFYPREAKVQWKVDNALQSGNSQES

34. US-09-925-179-9 (1-218)
US-08-466-163B-4 Sequence 47, Application US/08466163B

Sequence 47, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 47
LENGTH: 4
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 50% Matches = 2 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

170 180 190 200 210 X X
ESVTEQDSKSTYLSLSTLTSKADYEKHKYACEVTHQGLSSPVTKSFNRGEC
||
EGET
X X

35. US-09-925-179-9 (1-218)
US-08-466-163B-3 Sequence 30, Application US/08466163B

Sequence 30, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 30
LENGTH: 4
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant IgE Fc(epsilon)3 sequence fragment

Initial Score = 2 Optimized Score = 2 Significance = -0.23

PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 54
LENGTH: 5
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment

Initial Score = 2 Optimized Score = 3 Significance = -0.23
Residue Identity = 60% Matches = 3 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

150 160 170 180 190 200 210
EAKVQWKVDNALQSGNSQESVTEQSDKSTYLSLTLSKADYEKHKVYACEVTHQGLSPVTKSFNRGEC
ACAVA
X X

40. US-09-925-179-9 (1-218)
US-08-466-163B-2 Sequence 23, Application US/08466163B

Sequence 23, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 23
LENGTH: 5
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Modified IgG1-derived sequence

Initial Score = 2 Optimized Score = 3 Significance = -0.23
Residue Identity = 60% Matches = 3 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

150 160 170 180 190 200 210
EAKVQWKVDNALQSGNSQESVTEQSDKSTYLSLTLSKADYEKHKVYACEVTHQGLSPVTKSFNRGEC
ACAVA
X X

41. US-09-925-179-9 (1-218)
US-08-466-163B-4 Sequence 44, Application US/08466163B

Sequence 44, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.

TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 44
LENGTH: 6
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 33% Matches = 2 Mismatches = 4
Gaps = 0 Conservative Substitutions = 0

70 80 90 100 110 X 120 130
RFSGSGGTDFTLTITISSLPQEDFATYYCQSHEDPVTFQGTQKVEIKRTVAAPSVFIFPPPSDEQLKSGTASV
AAEAQA
X X

140 150 160 170
VCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQ

42. US-09-925-179-9 (1-218)
US-08-466-163B-4 Sequence 43, Application US/08466163B

Sequence 43, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 43
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 33% Matches = 2 Mismatches = 4
Gaps = 0 Conservative Substitutions = 0

140 150 160 170 180 190 X 200 210
LLNNFYPREAKVQWKVDNALQSGNSQESVTEQSDKSTYLSLTLSKADYEKHKVYACEVTHQGLSPV
KEEKOR
X X

KSFNRGEC

140 150 160 170 180 190 X 200 210
LLNNFYPRKAVQKVDNALQSGNSQESVTEQDSKSTYLSLSTLTLSKADYKHKYACEVTHQGLSSPVT

KEEKQR
X X

KSFNRGEC

45. US-09-925-179-9 (1-218)
US-08-466-163B-3 Sequence 39, Application US/08466163B

Sequence 39, Application US/08466163B

Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 39
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapeins

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 33% Matches = 2 Mismatches = 4
Gaps = 0 Conservative Substitutions = 0

140 150 160 170 180 190 X 200 210
LLNNFYPRKAVQKVDNALQSGNSQESVTEQDSKSTYLSLSTLTLSKADYKHKYACEVTHQGLSSPVT

KEEKQR
X X

KSFNRGEC

46. US-09-925-179-9 (1-218)
US-08-466-163B-3 Sequence 37, Application US/08466163B

Sequence 37, Application US/08466163B

Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 37
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 33% Matches = 2 Mismatches = 4
Gaps = 0 Conservative Substitutions = 0

43. US-09-925-179-9 (1-218)
US-08-466-163B-4 Sequence 42, Application US/08466163B

Sequence 42, Application US/08466163B

Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 42
LENGTH: 6
TYPE: PRT
ORGANISM: Artificial sequence

FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 33% Matches = 2 Mismatches = 4
Gaps = 0 Conservative Substitutions = 0

140 150 160 170 180 190 X 200
VCLNNFYPRKAVQKVDNALQSGNSQESVTEQDSKSTYLSLSTLTLSKADYKHKYACEVTHQGLSSP

KAAQA
X X

210
VTXSFNRGEC

44. US-09-925-179-9 (1-218)
US-08-466-163B-4 Sequence 41, Application US/08466163B

Sequence 41, Application US/08466163B

Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 41
LENGTH: 6
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 33% Matches = 2 Mismatches = 4
Gaps = 0 Conservative Substitutions = 0

TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 33% Matches = 2 Mismatches = 4
Gaps = 0 Conservative Substitutions = 0

140 150 160 170 180 190 X 200 210
LNNFYPRKQVQKVDNALQSGNSQESVTEQDSKDYSLSTLTLSKADYKHKVYACEVTHQGLSPVT

KEEKQR
X X

KSFNRGEC

47. US-09-925-179-9 (1-218)
US-08-466-163B-3 Sequence 36, Application US/08466163B

Sequence 36, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

PRIOR FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 36

LENGTH: 6

TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: Mutant Ige Fc(epsilon)3 sequence fragment

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 33% Matches = 2 Mismatches = 4
Gaps = 0 Conservative Substitutions = 0

70 80 90 100 110 X 120 130
PBRFSGSGTDTLTITISLQPEDPATYQCQSHEDPYTFGQGTKEIKRTVAAPSVFIFPPSDEQLKSGTA

AAAGA
X X

140 150 160
SVVCLNNFYPRKQVQKVDNALQSGNSQESVT

48. US-09-925-179-9 (1-218)
US-08-466-163B-2 Sequence 20, Application US/08466163B

Sequence 20, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

PRIOR FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 20

LENGTH: 6
TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 33% Matches = 2 Mismatches = 4
Gaps = 0 Conservative Substitutions = 0

140 150 160 170 180 190 X 200 210
LNNFYPRKQVQKVDNALQSGNSQESVTEQDSKDYSLSTLTLSKADYKHKVYACEVTHQGLSPVT

KEEKQR
X X

KSFNRGEC

49. US-09-925-179-9 (1-218)
US-08-466-163B-5 Sequence 58, Application US/08466163B

Sequence 58, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.

TITLE OF INVENTION: Immunoglobulin Variants

FILE REFERENCE: P0718P2C1D1

CURRENT APPLICATION NUMBER: US/08/466,163B

PRIOR FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: US 08/405,617

PRIOR FILING DATE: 1995-03-15

PRIOR APPLICATION NUMBER: US 08/185,899

PRIOR FILING DATE: 1994-01-26

PRIOR APPLICATION NUMBER: US 07/879,495

PRIOR FILING DATE: 1992-05-07

PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 58

LENGTH: 8

TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: Mutant sequence substituted in place of Ige Fc(epsilon)1e fragment

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 25% Matches = 2 Mismatches = 6
Gaps = 0 Conservative Substitutions = 0

70 80 90 100 110 X 120 130
SRFSGSGTDTLTITISLQPEDPATYQCQSHEDPYTFGQGTKEIKRTVAAPSVFIFPPSDEQLKSGTAS

AAAWLAAA
X X

140 150 160 170
VVCLNNFYPRKQVQKVDNALQSGNSQESVTEQD

50. US-09-925-179-9 (1-218)
US-08-466-163B-5 Sequence 57, Application US/08466163B

Sequence 57, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 57
LENGTH: 8
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = -0.23
Residue Identity = 25% Matches = 2 Mismatches = 6
Gaps = 0 Conservative Substitutions = 0

10 20 30 40 X 50 60 70
DIQLTQSPSLASVGRVTITCRASQVDYDGSYMWYQKPGKAPKLLIYAASYLESGVPSRPSGSGS
QKHWLSDR X
X

80 90
TDFTLTISLSLPEDFATYYCQSHEDP

51. US-09-925-179-9 (1-218)
US-08-466-163B-2 Sequence 27, Application US/08466163B

Sequence 27, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 27
LENGTH: 8
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = -0.23
Residue Identity = 25% Matches = 2 Mismatches = 6
Gaps = 0 Conservative Substitutions = 0

70 80 90 100 110 120 X 130
SGSGSGTDTLTISLPEDFATYYCQSHEDPYTFQGTKEIKRTVAAPSVFIFFPSDEQLKSGTASVVC
FDLFIKRS X
X

140 150 160 170
LLNNFYPREAKVQKVDNALQSGNSQESVTEQDSKD

52. US-09-925-179-9 (1-218)
US-08-466-163B-2 Sequence 25, Application US/08466163B

Sequence 25, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 25
LENGTH: 8
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Modified IgG1-derived sequence

Initial Score = 2 Optimized Score = -0.23
Residue Identity = 25% Matches = 2 Mismatches = 6
Gaps = 0 Conservative Substitutions = 0

70 80 90 100 110 X 120 130
SRFSGSGSGTDTLTISLPEDFATYYCQSHEDPYTFQGTKEIKRTVAAPSVFIFFPSDEQLKSGTAS
AAAWLAAA X
X

53. US-09-925-179-9 (1-218)
US-08-466-163B-2 Sequence 24, Application US/08466163B

Sequence 24, Application US/08466163B

Patent No. 6329509

GENERAL INFORMATION:

APPLICANT: Jardieu, Paula M.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 24
LENGTH: 8
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = -0.23
Residue Identity = 25% Matches = 2 Mismatches = 6
Gaps = 0 Conservative Substitutions = 0

10 20 30 40 X 50 60 70
DIQLTQSPSSLSASVGRVTITCRASQSDYDGDSTMMWYQQKPGKAPKLLIYAASYLESGVPSRFSGSGS
OKHWLSDR X X
80 90
TDFTLTISLQPEDFATYCCQSHEDP

54. US-09-925-179-9 (1-218)
US-08-466-163B-1 Sequence 10, Application US/08466163B

Sequence 10, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 10
LENGTH: 8
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 25% Matches = 2 Mismatches = 6
Gaps = 0 Conservative Substitutions = 0

70 80 90 100 110 120 X 130
SGSGSGTDTLTISLQPEDFATYCCQSHEDPTFGQGTVEIKRTVAAPSVFIFPPSDEQLKSGTASVVC
PDLIRKS X X
140 150 160 170
LLNFFYPEAKVQWKVDNALQSGNSQESVTEQDSKD

55. US-09-925-179-9 (1-218)
US-08-466-163B-5 Sequence 50, Application US/08466163B

Sequence 50, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 50

LENGTH: 9
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Mutant sequence substituted in place of Ige Fc(epsilon)3 fragment
Initial Score = 2 Optimized Score = 2 Significance = -0.23
Residue Identity = 22% Matches = 2 Mismatches = 7
Gaps = 0 Conservative Substitutions = 0

160 170 180 190 200 X 210
WKVDNALQSGNSQESVTEQDSKDSYSLSTLTLSKADYEHKHYACEVTHQGLSSPVTKSFNRGEC
HODWLDGKE X
X

56. US-09-925-179-9 (1-218)
US-08-466-163B-4 Sequence 49, Application US/08466163B

Sequence 49, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 49
LENGTH: 9
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 3 Significance = -0.23
Residue Identity = 33% Matches = 3 Mismatches = 6
Gaps = 0 Conservative Substitutions = 0

160 170 180 190 200 210 X
SGNSQESVTEQDSKDSYSLSTLTLSKADYEHKHYACEVTHQGLSSPVTKSFNRGEC
TRDWIEGET X
X

57. US-09-925-179-9 (1-218)
US-08-466-163B-4 Sequence 46, Application US/08466163B

Sequence 46, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardieu, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768

PRIOR FILING DATE: 1991-08-14
 NUMBER OF SEQ ID NOS: 64
 SEQ ID NO 46
 LENGTH: 10
 TYPE: PRT
 ORGANISM: Artificial sequence
 FEATURE:
 OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment

Initial Score = 2 Optimized Score = 2 Significance = -0.23
 Residue Identity = 20% Matches = 2 Mismatches = 8
 Gaps = 0 Conservative Substitutions = 0

QWKVDNALQSGNSQESVTEQDSKSTYSLSSTLTKADYEKHKVYACEVTHQGLSPVTKSFNRGEC
 160 170 180 190 200 X
 LHQDWLDGKE
 X 10

58. US-09-925-179-9 (1-218)
 US-08-466-163B-4 Sequence 45, Application US/08466163B

Sequence 45, Application US/08466163B

Patent No. 6329509
 GENERAL INFORMATION:
 APPLICANT: Jardieu, Paula M.
 TITLE OF INVENTION: Immunoglobulin Variants
 FILE REFERENCE: P0718P2C1D1
 CURRENT APPLICATION NUMBER: US/08/466,163B
 CURRENT FILING DATE: 1995-06-06
 PRIOR APPLICATION NUMBER: US/08/405,617
 PRIOR FILING DATE: 1995-03-15
 PRIOR APPLICATION NUMBER: US/08/185,899
 PRIOR FILING DATE: 1994-01-26
 PRIOR APPLICATION NUMBER: US/07/879,495
 PRIOR FILING DATE: 1992-05-07
 PRIOR APPLICATION NUMBER: US/07/744,768
 PRIOR FILING DATE: 1991-08-14
 NUMBER OF SEQ ID NOS: 64
 SEQ ID NO 45
 LENGTH: 10
 TYPE: PRT
 ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 3 Significance = -0.23
 Residue Identity = 30% Matches = 3 Mismatches = 7
 Gaps = 0 Conservative Substitutions = 0

ASVLESGVPSRFRSGSGGTFDTLTISLQPEDFATYCCQSHEDPYTFGGTKVEIKRTVAAPSVFIFPPSD
 60 70 80 90 100 110 X 120
 GTRDWIEGET
 X 10

59. US-09-925-179-9 (1-218)
 US-08-466-163B-1 Sequence 17, Application US/08466163B

Sequence 17, Application US/08466163B

Patent No. 6329509
 GENERAL INFORMATION:
 APPLICANT: Jardieu, Paula M.
 TITLE OF INVENTION: Immunoglobulin Variants
 FILE REFERENCE: P0718P2C1D1
 CURRENT APPLICATION NUMBER: US/08/466,163B
 CURRENT FILING DATE: 1995-06-06
 PRIOR APPLICATION NUMBER: US/08/405,617

ASVLESGVPSRFRSGSGGTFDTLTISLQPEDFATYCCQSHEDPYTFGGTKVEIKRTVAAPSVFIFPPSD
 130 140 150 160
 EQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQ

PRIOR FILING DATE: 1995-03-15
 PRIOR APPLICATION NUMBER: US 08/185,899
 PRIOR FILING DATE: 1994-01-26
 PRIOR APPLICATION NUMBER: US 07/879,495
 PRIOR FILING DATE: 1992-05-07
 PRIOR APPLICATION NUMBER: US 07/744,768
 PRIOR FILING DATE: 1991-08-14
 NUMBER OF SEQ ID NOS: 64
 SEQ ID NO 17
 LENGTH: 10
 TYPE: PRT
 ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 2 Significance = -0.23
 Residue Identity = 20% Matches = 2 Mismatches = 8
 Gaps = 0 Conservative Substitutions = 0

QWKVDNALQSGNSQESVTEQDSKSTYSLSSTLTKADYEKHKVYACEVTHQGLSPVTKSFNRGEC
 160 170 180 190 200 X
 LHQDWLDGKE
 X 10

60. US-09-925-179-9 (1-218)
 US-08-466-163B-1 Sequence 16, Application US/08466163B

Sequence 16, Application US/08466163B

Patent No. 6329509
 GENERAL INFORMATION:
 APPLICANT: Jardieu, Paula M.
 TITLE OF INVENTION: Immunoglobulin Variants
 FILE REFERENCE: P0718P2C1D1
 CURRENT APPLICATION NUMBER: US/08/466,163B
 CURRENT FILING DATE: 1995-06-06
 PRIOR APPLICATION NUMBER: US/08/405,617
 PRIOR FILING DATE: 1995-03-15
 PRIOR APPLICATION NUMBER: US/08/185,899
 PRIOR FILING DATE: 1994-01-26
 PRIOR APPLICATION NUMBER: US/07/879,495
 PRIOR FILING DATE: 1992-05-07
 PRIOR APPLICATION NUMBER: US/07/744,768
 PRIOR FILING DATE: 1991-08-14
 NUMBER OF SEQ ID NOS: 64
 SEQ ID NO 16
 LENGTH: 10
 TYPE: PRT
 ORGANISM: Homo sapiens

Initial Score = 2 Optimized Score = 3 Significance = -0.23
 Residue Identity = 30% Matches = 3 Mismatches = 7
 Gaps = 0 Conservative Substitutions = 0

ASVLESGVPSRFRSGSGGTFDTLTISLQPEDFATYCCQSHEDPYTFGGTKVEIKRTVAAPSVFIFPPSD
 60 70 80 90 100 110 X 120
 GTRDWIEGET
 X 10

61. US-09-925-179-9 (1-218)
 US-08-466-163B-3 Sequence 34, Application US/08466163B

Sequence 34, Application US/08466163B

Patent No. 6329509
 GENERAL INFORMATION:
 APPLICANT: Jardieu, Paula M.
 TITLE OF INVENTION: Immunoglobulin Variants

ASVLESGVPSRFRSGSGGTFDTLTISLQPEDFATYCCQSHEDPYTFGGTKVEIKRTVAAPSVFIFPPSD
 130 140 150 160
 EQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQ

FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 34
LENGTH: 11
TYPE: PRT
ORGANISM: Homo sapiens
Initial Score = 2 Optimized Score = 3 Significance = -0.23
Residue Identity = 33% Matches = 4 Mismatches = 7
Gaps = 1 Conservative Substitutions = 0
110 120 130 140 150 160 170
GGGKVEIKRTVAAPSVFIFFPDSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKD
YVD-GVQVHNK X
10

180 190 200 210
STYLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFN

62. US-09-925-179-9 (1-218)
US-08-466-163B-1 Sequence 15, Application US/08466163B

Sequence 15, Application US/08466163B
Patent No. 6329509
GENERAL INFORMATION:
APPLICANT: Jardiou, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Immunoglobulin Variants
FILE REFERENCE: P0718P2C1D1
CURRENT APPLICATION NUMBER: US/08/466,163B
CURRENT FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 08/405,617
PRIOR FILING DATE: 1995-03-15
PRIOR APPLICATION NUMBER: US 08/185,899
PRIOR FILING DATE: 1994-01-26
PRIOR APPLICATION NUMBER: US 07/879,495
PRIOR FILING DATE: 1992-05-07
PRIOR APPLICATION NUMBER: US 07/744,768
PRIOR FILING DATE: 1991-08-14
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 15
LENGTH: 11
TYPE: PRT
ORGANISM: Homo sapiens
Initial Score = 2 Optimized Score = 3 Significance = -0.23
Residue Identity = 33% Matches = 4 Mismatches = 7
Gaps = 1 Conservative Substitutions = 0
110 120 130 140 150 160 170
GGGKVEIKRTVAAPSVFIFFPDSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKD
YVD-GVQVHNK X
10

180 190 200 210
STYLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFN